

# BCN 2013 BCN 2013

## BARCELONA 2013 15<sup>th</sup> FINA WORLD CHAMPIONSHIPS

15<sup>es</sup> FINA CAMPEONATOS  
DEL MUNDO DE NATACIÓN

15<sup>ns</sup> FINA CAMPIONATS  
DEL MÓN DE NATACIÓ

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WORLD BROADCASTERS MEETING  
**TV HANDBOOK**



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## WORLD BROADCASTERS MEETING

## TV HANDBOOK

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## WORLD BROADCASTERS MEETING / **TV HANDBOOK**

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## 1. WELCOME MESSAGES

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## WORLD BROADCASTERS MEETING / **TV HANDBOOK**

# 1. WELCOME MESSAGES

## 1.1 Message from the President of FINA

Dear Friends,

Welcome to Barcelona (ESP) for the World Broadcasters Meeting taking place on November 21-23, 2012 and aimed at preparing in the best possible way the coverage of the 15th FINA World Championships, scheduled from July 19-August 4, 2013 in the exciting capital of Catalonia.

The FINA Family is very happy to return to Barcelona, after the memorable edition of the 1992 Olympic Games and the superb organisation of the 2003 FINA World Championships also in this dynamic metropolis. Ten years ago, FINA's major competition had transformed the city into the "City of Water", creating an outstanding Aquatic Festival, followed by hundreds of millions of TV viewers worldwide and thousands of spectators on site.

The iconic picture at the diving facility, with the emblematic Sagrada Familia as the background of the athletes performing their dives is and will surely be one of the trademarks of the FINA World Championships.

The support of FINA TV Partners in promoting, transmitting and sharing the images of our spectacular disciplines in the five continents constitutes the main key factor for success at FINA events.

Next July, here in Barcelona, I am sure that the Host Broadcaster of the championships, TVE, will once more do a superb work in the TV production of this competition.

Everyone is getting ready for this milestone, in a city that has a true passion for Sport. Our athletes, coaches, officials, but also media and sponsors representatives, as well as all the fans of FINA are eager to give their precious contribution for a great show and unforgettable championships.

I sincerely thank you for all your help and devotion and I wish you a very fruitful World Broadcasters Meeting.

Let the Aquatic action begin in Barcelona!

Dr. Julio C. Maglione  
FINA President





## 1.2 Message from the Mayor of Barcelona

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As Mayor of Barcelona, it is a great pleasure for me to welcome you to our city for the World Broadcasters Meeting. This is truly the first event of the 15th FINA World Swimming Championships Barcelona 2013, that will take place in our city next summer.

Barcelona is deeply Mediterranean, modern and proud of its history, with a longstanding tradition in sports. A good example of this is both the enthusiasm the city is devoting to the 15th FINA World Swimming Championships Barcelona 2013, and the infrastructures which are already visible, nine months before the competitions begin.

Thanks to the support of the Barcelona 2013 Organising Committee as well as the International Swimming Federation (FINA), I can assure you that this will be another major and successful sporting event in our city and one of the main focuses of the global sports community next year.

I would like to take the opportunity to thank the Host Broadcaster of Barcelona 2013, Radio Televisión Española (RTVE), for their excellent work in setting up the necessary infrastructures for the broadcasting of this major event and also for the organisation of this important meeting.

I am sure that you are aware of the international recognition of Barcelona as the host city for major sporting events. But I would also like to emphasise the fact that in recent years our citizens have taken up sports as an essential part of their lives, both in public places or in the many clubs and private institutions, some founded over a hundred years ago.

I very much hope you have an enjoyable and fruitful stay in Barcelona. And I look forward to welcoming you and your colleagues again in Barcelona next year.

Xavier Trias  
Mayor of Barcelona



### 1.3 Message from the Director of iTVE

Dear colleagues,

¡Bienvenidos! Benvinguts! Welcome!

On behalf of Radiotelevisión Española (RTVE), it gives me great pleasure to welcome you to the city of Barcelona on the occasion of the World Broadcasters Meeting for the 15th FINA World Championships.

RTVE has an absolute commitment and a longstanding tradition in producing and broadcasting all kind of sporting events, from the most spectacular, such as the Olympic Games, to the smaller scale and minority events. After the wonderful experience in 2003, we are delighted to become once again the Host Broadcaster of the FINA World Championships, the most important aquatic sports event in the world.

I would also like to express our gratitude to the Fédération Internationale de Natation (FINA) for their support and confidence as well as to the European Broadcasting Union (EBU) our key vehicle for the production and broadcasting of sports events in Europe. And, of course, to the wonderful city of Barcelona which after the unrivalled success of the 1992 Olympic Games, offers again its hospitality and facilities to host these Championships, and whose commitment to sport is reflected in the superb and highly skilled team of the BCN2013 Organizing Committee.

For the production of the FINA World Championships we will be deploying the state-of-the-art equipment and will rely on the expertise of our professionals, our most valuable asset. In addition, we will be working in collaboration with Televisió de Catalunya whose excellent sports production will contribute to a resounding success in what will undoubtedly be an example of a fruitful cooperation between two public service audiovisual Companies in Spain.

We are confident in meeting all your expectations in the production of these World Championships for which this World Broadcaster Meeting is essential, as we are sure your comments and suggestions will be very valuable and will help us to bring about the desired results.

I wish you a very pleasant and productive stay over the forthcoming days in Barcelona!

Thank you very much.

Ignacio Corrales Rodríguez  
Director iTVE



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## 2. THE ORGANISING COMMITTEE

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## WORLD BROADCASTERS MEETING / **TV HANDBOOK**

## 2. THE ORGANISING COMMITTEE

### Co-Presidents of Organising Committee

<b>Mr. Fernando Carpena</b>	President of Real Federación Española de Natación
<b>Ms. Maite Fandos</b>	Tinenta d'Alcalde de Qualitat de Vida, Igualtat i Esports.

### Board of Directors

<b>Mr. Sergi Pujalte</b>	General Director
<b>Mr. Manel Ibern</b>	Competition Director
<b>Mr. Isidre Rigau</b>	Operations Director
<b>Ms. Mercè Vallès</b>	Marketing & Communication Director
<b>Mr. Eugenio Bermúdez</b>	Administration & Resources Director
<b>Mr. Carlos Martín</b>	Media Deputy Director
<b>Mr. Joan García</b>	Services Deputy Director

### Competition Directors

<b>Mr. Eugeni Ballarín</b>	Competition Logistics Manager
<b>Mr. Jordi Cadens</b>	Swimming Competition Director
<b>Mr. Antoni Comas</b>	Open Water Swimming Competition Director
<b>Ms. Ingrid Fontanals</b>	Diving & High Diving Competition Director
<b>Ms. Lúdia Flaqué</b>	Women Water Polo Competition Director
<b>Mr. Gustavo Marcos</b>	Men Water Polo Competition Director
<b>Ms. Núria Ayala</b>	Synchronized Swimming Competition Director

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### 3. THE HOST BROADCASTER

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## WORLD BROADCASTERS MEETING / **TV HANDBOOK**

## 3. THE HOST BROADCASTER

**Radiotelevisión Española (RTVE)** has been appointed by FINA as Host Broadcaster for the 15th FINA World Championships BCN2013. RTVE is very pleased to play this role in close collaboration with TVE-Televisió de Catalunya (TV3), in an example of a fruitful collaboration between two public service audiovisual companies in Spain

RTVE, as the Public Service Broadcaster in Spain, develops its communication activities through Radio Nacional de España (RNE) and Televisión Española (TVE).

**Radio Nacional de España (RNE)** is the most experienced and widespread radio in Spain and has covered all the major sporting events in the world in its 75 years history. RNE currently broadcasts five radio channels and a worldwide radio service.

**Televisión Española (TVE)** was established in 1956 and currently broadcasts five channels: La 1, generalist and family-oriented; La 2, generalist with special attention to cultural and civil issues; 24h, 24-hours news channel; Teledporte, sports channel; and Clan, children's television channel. TVE also broadcasts one 24-hours High Definition channel (TVE HD) and several international TV channels to cover the whole world (TVE Internacional).

TVE has an absolute commitment and a longstanding tradition in producing and broadcasting sporting events, as an example:

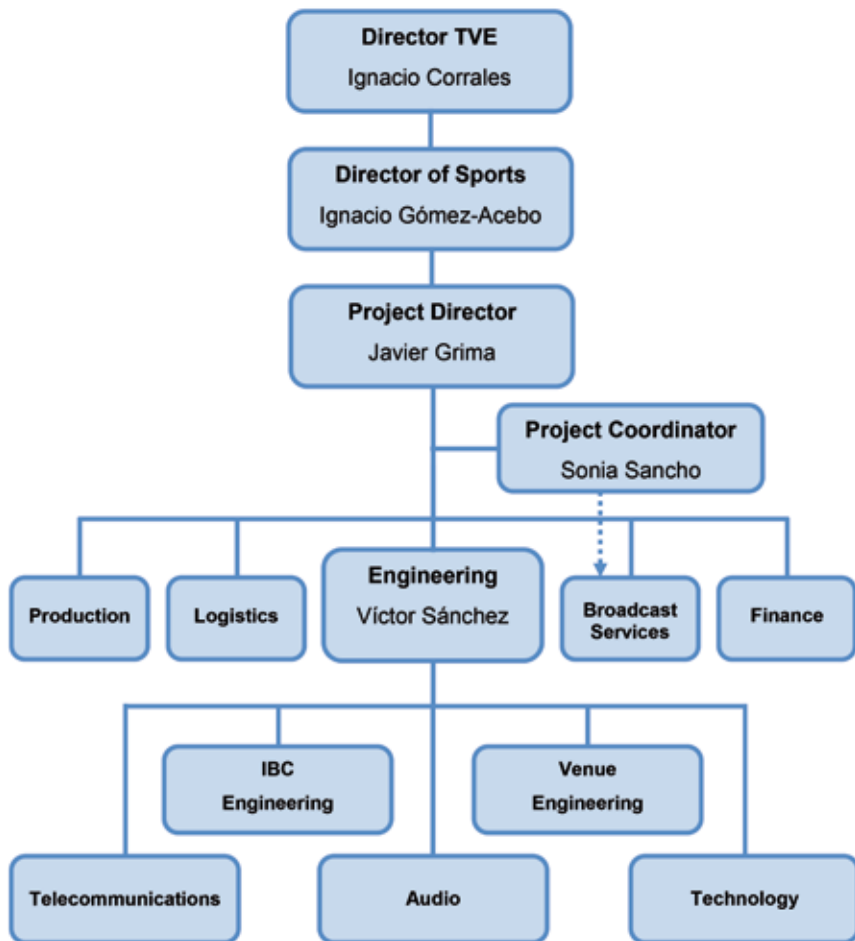
- FIFA World Cup 1982 (Host Broadcaster)
- FIBA World Championship 1986 (Host Broadcaster)
- Barcelona 1992 Olympic Games (member of the Olympic Radio and Television)
- IAAF World Championships Sevilla 1999 (Host Broadcaster)
- FINA World Championships Barcelona 2003 (Host Broadcaster)
- Davis Cup Finals 2000, 2004, 2009, 2011 (Host Broadcaster)
- Champions League finals (Host Broadcaster)
- America's Cup, Formula 1, MotoGP, Handball, Gymnastics...

The highly experienced personnel and the state-of-the-art equipment that TVE will deploy for the 15th FINA World Championships BCN2013 guarantees a great and resounding success for the event.



**TV3-Televisió de Catalunya (TV3)** is the public television broadcaster of Catalonia, under the auspices of the Catalan government (Generalitat de Catalunya). Founded 30 years ago, it now broadcasts on four channels entirely in the Catalan language: TV3 is the generalist channel and ratings leader in its territory; Esport3, the sports channel; 3/24, the 24-hour news channel; and Super3/33, both the children's and cultural channel. TV3 programs also offer a wide range of multi-platform content. In sports, handling the rights to major sports events, such as the UEFA Champions League, Formula 1 World Championship, the Spanish Football League, Euroleague Basketball, has always been a top priority for TV3. The network's expert staff has a solid track record in television production and directing of sports events, and has worked on the production of major world events such as the 1992 Olympic Games in Barcelona and the 2009 UEFA Champions League final in Madrid, in both cases in collaboration with TVE. In recent years, TV3 has also produced several Formula 1 Grands Prix at the Circuit de Catalunya, Spanish League FC Barcelona and RCD Espanyol matches, and the 2003 Euroleague Basketball Final Four in Barcelona. It is also one of the pioneers in 3D, with 3D productions including the 2009 UEFA Champions League final.

## Host Broadcaster Organization Chart



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## 4. CONTACT LIST

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## WORLD BROADCASTERS MEETING / **TV HANDBOOK**

## 4. CONTACT LIST

### FINA

#### FINA Office

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1005 Lausanne  
Switzerland  
[www.fina.org](http://www.fina.org)

**Peter Hall**  
FINA Marketing & TV  
[Peter.hall@fina.org](mailto:Peter.hall@fina.org)



### BCN 2013

#### BCN2013 Office

Palau Sant Jordi  
Passeig Olímpic 5-7  
08038 Barcelona  
[www.bcn2013.com](http://www.bcn2013.com)

**Sara Llorens**  
TV Coordinator  
[sllorens@bcn2013.com](mailto:sllorens@bcn2013.com)



### HOST BROADCASTER (RTVE)

#### RTVE Office

c/ Mercè Vilaret  
08174 Sant Cugat del  
Vallès (Barcelona)  
[www.rtve.es](http://www.rtve.es)

**Sonia Sancho**  
HB Project Coordinator  
[sonia.sancho@rtve.es](mailto:sonia.sancho@rtve.es)



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## 5. COMPETITION SCHEDULE

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## WORLD BROADCASTERS MEETING / **TV HANDBOOK**



## 5. COMPETITION SCHEDULE (PER DAYS)

### 19 July

Opening Ceremony

### 20 July

#### Synchronized Swimming

**09:00** Solo Tech Prel.

**14:00** Team Tech Prel.

**19:00** Solo Tech Final

#### Diving

**10:00** 3m Synchronized Women Prel.

**14:00** 1m Men Prel.

**17:30** 3m Synchronized Women Final

#### Open Water Swimming

**10:00** 5K Women

**13:00** 5K Men

### 21 July

#### Synchronized Swimming

**09:00** Duet Tech Prel.

**14:00** Free Combination Prel.

**19:00** Duet Tech Final

#### Waterpolo

**09:30** A1 vs A3 Women

**10:50** A2 vs A4 Women

**12:10** B1 vc B3 Women

**13:30** B2 vs B4 Women

**17:00** C1 vs C3 Women

**18:20** C2 vs C4 Women

**20:10** D1 vs D3 Women

**21:30** D2 vs D4 Women

#### Diving

**10:00** 10m Synchronized Men Prel.

**14:00** 1m Women Prel.

**17:30** 10m Synchronized Men Final

### 22 July

#### Synchronized Swimming

**09:00** Solo Free Prel.

**19:00** Team Tech Final

#### Waterpolo

**09:30** A1 vs A3 Men

**10:50** A2 vs A4 Men

**12:10** B1 vc B3 Men

**13:30** B2 vs B4 Men

**17:00** C1 vs C3 Men

**18:20** C2 vs C4 Men

**20:10** D1 vs D3 Men

**21:30** D2 vs D4 Men

#### Diving

**10:00** 10m Synchronized Women Prel.

**14:00** 1m Men Final

**17:30** 10m Synchronized Women  
Final

#### Open Water Swimming

**12:00** 10k Men

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## 23 July

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### Synchronized Swimming

**09:00** Duet Free Prel.

**18:00** Team Free Prel.

### Waterpolo

**09:30** B4 vs B3 Women

**10:50** B1 vs B2 Women

**12:10** C4 vs C3 Women

**13:30** C1 vs C2 Women

**17:00** D4 vs D3 Women

**18:20** D1 vs D2 Women

**20:10** A4 vs A3 Women

**21:30** A1 vs A2 Women

### Diving

**10:00** 3m Synchronized Men Prel.

**14:00** 1m Women Final

**17:30** 3m Synchronized Men Final

### Open Water Swimming

**12:00** 10k Women

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## 24 July

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### Waterpolo

**09:30** B4 vs B3 Men

**10:50** B1 vs B2 Men

**12:10** C4 vs C3 Men

**13:30** C1 vs C2 Men

**17:00** D4 vs D3 Men

**18:20** D1 vs D2 Men

**20:10** A4 vs A3 Men

**21:30** A1 vs A2 Men

### Diving

**10:00** 10m Women Prel.

**14:00** 10m Women Semifinal

**17:30** Team Event

### Synchronized Swimming

**19:00** Solo Free Final

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## 25 July

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### Waterpolo

**09:30** C1 vs C4 Women

**10:50** C2 vs C3 Women

**12:10** D1 vs D4 Women

**13:30** D2 vs D3 Women

**17:00** A1 vs A4 Women

**18:20** A2 vs A3 Women

**20:10** B1 vs B4 Women

**21:30** B2 vs B3 Women

### Diving

**10:00** 3m Men Prel.

**14:00** 3m Men Semifinal

**17:30** 10m Women Final

### Open Water Swimming

**12:00** 5K Teams

### Synchronized Swimming

**19:00** Duet Free Final

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## 26 July

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### Waterpolo

**09:30** C1 vs C4 Men

**10:50** C2 vs C3 Men

**12:10** D1 vs D4 Men

**13:30** D2 vs D3 Men

**17:00** A1 vs A4 Men

**18:20** A2 vs A3 Men

**20:10** B1 vs B4 Men

**21:30** B2 vs B3 Men

### Diving

**10:00** 3m Women Prel.

**14:00** 3m Women Semifinal

**17:30** 3m Men Final

### Synchronized Swimming

**19:00** Team Free Final

## 27 July

### Open Water Swimming

**08:00** 25K Men

**08:15** 25K Women

### Waterpolo

**09:30** 1st A-4th B Women (25)

**10:50** 2nd A-3rd B Women (26)

**12:10** 2nd B-3rd A Women (27)

**13:30** 1st B-4th A Women (28)

**17:00** 1st C-4th D Women (29)

**18:20** 2nd C-3rd D Women (30)

**20:10** 1st D-4th C Women (31)

**21:30** 2nd D-3rd C Women (32)

### Diving

**10:00** 10m Men Prel.

**14:00** 10m Men Semifinal

**17:30** 3m Women Final

### Synchronized Swimming

**19:00** Free Combination Final

## 28 July

### Waterpolo

**09:30** 1st A-4th B Men (25)

**10:50** 2nd A-3rd B Men (26)

**12:10** 1st B-4th A Men (27)

**13:30** 2nd B-3rd A Men (28)

**17:00** 1st C-4th D Men (29)

**18:20** 2nd C-3rd D Men (30)

**20:10** 1st D-4th C Men (31)

**21:30** 2nd D-3rd C Men (32)

### Swimming (Heads)

**10:00**

100m Butterfly Women

400m Freestyle Men

200m Individual Medley Women

50m Butterfly Men

400m Freestyle Women

100m Breaststroke Men

4x100m Freestyle Relay Women

4x100m Freestyle Relay Men

### Diving

**14:00** 10m Men Final

### Swimming

**18:00**

100m Butterfly Women Semifinals

400m Freestyle Men Final

200m Individual Medley Women Semifinals

50m Butterfly Men Semifinals

400m Freestyle Women Final

100m Breaststroke Men Semifinals

4x100m Freestyle Relay Women Final

4x100m Freestyle Relay Men Final

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## 29 July

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### Swimming (Heads)

**10:00**

100m Backstroke Women  
100m Backstroke Men  
100m Breaststroke Women  
200m Freestyle Men  
1500m Freestyle Women

### High Diving

**12:00** 27m Men Rd 1-2.

### Waterpolo

**15:30** W25 – W30 Women (33)

**17:00** W27 – W32 Women (34)

**20:15** W29 – W26 Women (35)

**21:45** W31 – W28 Women (36)

### Swimming

**18:00**

100m Breaststroke Men Final  
100m Butterfly Women Final  
100m Backstroke Men Semifinals  
100m Breaststroke Women Semifinals  
50m Butterfly Men Final  
100m Backstroke Women Semifinals  
200m Freestyle Men Semifinals  
200m Individual Medley Women Final

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## 30 July

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### Swimming (Heads)

**10:00**

50m Breaststroke Men  
200m Freestyle Women  
200m Butterfly Men  
800m Freestyle Men

### High Diving

**12:00** 18m Women

### Waterpolo

**15:30** W25 – W30 Men (33)

**17:00** W27 – W32 Men (34)

**20:15** W29 – W26 Men (35)

**21:45** W31 – W28 Men (36)

### Swimming

**18:00**

200m Freestyle Men Final  
100m Backstroke Women Final  
50m Breaststroke Men Semifinals  
1500m Freestyle Women Final  
100m Backstroke Men Final  
200m Freestyle Women Semifinals  
200m Butterfly Men Semifinals  
100m Breaststroke Women Final

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## 31 July

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### Swimming (Heads)

**10:00**

50m Backstroke Women  
100m Freestyle Men  
200m Butterfly Women  
200m Individual Medley Men

### High Diving

**12:00** 27m Men Rd 3-4

### Waterpolo

**15:30** L33-L34 Women (37)

**17:00** L35-L36 Women (38)

**20:15** W33-W34 Women (39)

**21:45** W35-W36 Women (40)

## Swimming

**18:00**

100m Freestyle Men Semifinals  
50m Backstroke Women Semifinals  
200m Butterfly Men Final  
200m Freestyle Women Final  
50m Breaststroke Men Final  
200m Butterfly Women Semifinals  
200m Individual Medley Men Semifinals  
800m Freestyle Men Final

## 1 August

### Swimming (Heats)

**10:00**

100m Freestyle Women  
200m Backstroke Men  
200m Breaststroke Women  
200m Breaststroke Men  
4x200m Freestyle Relay Women

### Waterpolo

**15:30** L33-L34 Men (37)

**17:00** L35-L36 Men (38)

**20:15** W33-W34 Men (39)

**21:45** W35-W36 Men (40)

### Swimming

**18:00**

100m Freestyle Women Semifinals  
200m Individual Medley Men Final  
200m Breaststroke Women Semifinals  
100m Freestyle Men Final  
200m Butterfly Women Final  
200m Breaststroke Men semifinals  
50m Backstroke Women Final  
200m Backstroke Men semifinals

4x200m Freestyle Relay Women Final

## 2 August

### Swimming (Heats)

**10:00**

50m Freestyle Men  
50m Butterfly Women  
100m Butterfly Men  
200m Backstroke Women  
4x200m Freestyle Relay Men  
800m Freestyle Women

### Waterpolo

**10:00** 7th-8th Women (L37-L38)

**11:30** 5th-6th Women (W37-W38)

**13:00** 3rd-4th Women (L39-L40)

**22:00** 1st-2nd Women (W39-W40)

### Swimming

**18:00**

100m Freestyle Women Final  
200m Backstroke Men Final  
200m Backstroke Women Semifinals  
50m Freestyle Men Semifinals  
200m Breaststroke Women Final  
100m Butterfly Men Semifinals  
50m Butterfly Women Semifinals  
200m Breaststroke Men Final  
4x200m Freestyle Relay Men Final

## 3 August

### Swimming (Heads)

**10:00**

50m Freestyle Women

50m Backstroke Men  
50m Breaststroke Women  
1500m Freestyle Men

4x100m Medley Relay Men Final  
4x100m Medley Relay Women Final

### Closing Ceremony

### Waterpolo

**10:00** 7th-8th Men (L37-L38)  
**11:30** 5th-6th Men (W37-W38)  
**13:00** 3rd-4th Men (L39-L40)  
**22:00** 1st-2nd Men (W39-W40)

### Swimming

**18:00**  
50m Butterfly Women Final  
50m Freestyle Men Final  
200m Backstroke Women Final  
50m Breaststroke Women Semifinals  
100m Butterfly Men Final  
50m Freestyle Women Semifinals  
50m Backstroke Men Semifinals  
800m Freestyle Women Final

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## 4 August

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### Swimming (Heads)

**10:00**  
400m Individual Medley Men  
400m Individual Medley Women  
4x100m Medley Relay Men  
4x100m Medley Relay Women

### Swimming

**18:00**  
50m Backstroke Men Final  
50m Breaststroke Women Final  
400m Individual medley Men Final  
50m Freestyle Women Final  
1500m Freestyle Men Final  
400m Individual Medley Women Final

COMPETITION SCHEDULE

	19 July FRI. OPEN CEREMONY	20 July SAT.	21 July SUN.	22 July MON.	23 July TUE.	24 July WED.	25 July THU.	26 July FRI.	27 July SAT.	28 July SUN.	29 July MON.	30 July TUE.	31 July WED.	1 Aug. THU.	2 Aug. FRI.	3 Aug. SAT.	4 Aug. SUN. CLOSING CEREMONY
SWIMMING	Morning									10:00 - 13:45 100m BU W 400m FR M 200m IM W 50m BU M 400m FR W 100m BR M 4x100m FR RL W 4x100m FR RL M	10:00 - 12:45 100m BA W 100m BA M 100m BR W 200m FR M 1500m FR W	10:00 - 12:45 50m BR M 200m FR W 200m BU M 800m FR M	10:00 - 12:45 50m BA W 100m FR M 200m BU W 200m IM M	10:00 - 12:45 100m FR W 200m BA M 200m BR W 200m BA W 4x200m FR RL W	10:00 - 12:45 50m FR M 50m BU W 100m BU M 200m BA W 4x200m FR RL M 800m FR W	10:00 - 12:45 50m FR W 50m BA M 50m BR W 1500m FR M	10:00 - 12:30 400m IM M 400m IM W 4x100m MD RL M 4x100m MD RL W
	Evening									18:00 - 20:15 100m BU W 400m FR M 200m IM W 50m BU M 400m FR W 100m BR M 4x100m FR RL W 4x100m FR RL M	18:00 - 20:00 100m BR M 100m BU W 100m BA W 50m BR M 1500m FR W 50m BU M 200m FR M 200m IM W	18:00 - 20:20 200m FR M 100m BA W 50m BR M 200m FR W 100m BR M 200m BU M 200m IM M	18:00 - 20:10 100m FR M 50m BA W 200m BU M 200m BR W 200m BA W 50m FR M 200m BA M	18:00 - 20:30 100m FR W 200m IM M 200m BR W 50m FR M 100m BU M 50m BU W 200m BR M	18:00 - 20:20 100m FR W 200m BA M 200m BR W 100m BU M 50m FR W 50m BA M 200m BR M	18:00 - 20:25 50m BU W 50m FR M 200m BA W 50m BR W 100m BU M 1500m FR M 800m FR W	18:00 - 20:25 50m BA M 50m BR W 400m IM M 50m FR W 400m IM W 4x100m MD RL M 4x100m MD RL W
OPEN WATER	Morning	10:00-14:15 (10:00) 5 K WOMEN (13:00) 5 K MEN		12:00-14:15 10 K MEN	12:00-14:15 10 K WOMEN		12:00-13:15 5 K TEAMS		08:00-14:00 (8:00) 25 K MEN (8:15) 25 K WOMEN								
SYNCHRO	Morning	09:00-11:30 SOLO TECH	09:00-12:30 DUET TECH	09:00-13:00 SOLO FREE	09:00-13:30 DUET FREE												
	Afternoon	14:00-16:30 TEAM TECH	14:00-16:30 FREE COMB														
	Evening	19:00-20:15 SOLO TECH	19:00-20:20 DUET TECH	19:00-20:30 TEAM TECH	18:00-20:30 TEAM FREE	19:00-20:35 SOLO FREE	19:00-20:40 DUET FREE	19:00-20:45 TEAM FREE	19:00-20:50 FREE COMB								
DIVING	Morning	10:00-12:45 3M SPR SYNCH WOMEN	10:00-12:45 10M PLAT SYNCH MEN	10:00-12:45 10M PLAT SYNCH WOMEN	10:00-12:45 3M SPR SYNCH MEN	10:00-12:45 10M PLAT WOMEN	10:00-12:45 3M SPR MEN	10:00-12:45 3M SPR WOMEN	10:00-12:45 10M PLAT MEN								
	Afternoon	14:00-16:15 1M SPR MEN	14:00-16:15 1M SPR WOMEN	14:00-15:15 1M SPR MEN	14:00-15:00 1M SPR WOMEN	14:00-15:30 10M PLAT WOMEN	14:00-15:45 3M SPR MEN	14:00-15:30 3M SPR WOMEN	14:00-15:45 10M PLAT MEN	14:00-15:15 10M PLAT MEN							
	Evening	17:30-18:30 3M SPR SYNCH WOMEN	17:30-18:45 10M PLAT SYNCH MEN	17:30-18:30 10M PLAT SYNCH WOMEN	17:30-18:45 3M SPR SYNCH MEN	17:30-18:30 TEAM EVENT	17:30-18:30 10M PLAT WOMEN	17:30-18:45 3M SPR MEN	17:30-18:30 3M SPR WOMEN								
HIGH DIVING	Morning										12:00-14:00 27M HDV MEN Rd1-2	12:00-14:00 18M HDV WOMEN	12:00-14:00 27M HDV MEN Rd3-4				
MEN WPOLO	Morning		09:30 1 A1 vs A3 10:50 2 A2 vs A4 12:10 3 B1 vs B3 13:30 4 B2 vs B4		09:30 9 B4 vs B3 10:50 10 B1 vs B2 12:10 11 C4 vs C3 13:30 12 C1 vs C2		09:30 17 C1 vs C4 10:50 18 C2 vs C3 12:10 19 D1 vs D4 13:30 20 D2 vs D3		09:30 25 1st A - 4th B 10:50 26 2nd A - 3rd B 12:10 27 1st B - 4th A 13:30 28 2nd B - 3rd A							7th-8th 10:00 41 L 37 - L 38 5th-6th 11:30 42 W 37 - W 38 3rd-4th 13:00 43 L 39 - L 40	
	Evening		17:00 5 C1 vs C3 18:20 6 C2 vs C4 20:10 7 D1 vs D3 21:30 8 D2 vs D4		17:00 13 D4 vs D3 18:20 14 D1 vs D2 20:10 15 A4 vs A3 21:30 16 A1 vs A2		17:00 21 A1 vs A4 18:20 22 A2 vs A3 20:10 23 B1 vs B4 21:30 24 B2 vs B3		17:00 29 1st C - 4th D 18:20 30 2nd C - 3rd D 20:10 31 1st D - 4th C 21:30 32 2nd D - 3rd C		15:30 33 W 25 - W 30 17:00 34 W 27 - W 32 20:15 33 W 29 - W 26 21:45 34 W 31 - W 28		5 to 8 15:30 37 L 33 - L 34 17:00 38 L 35 - L 36 1 to 4 20:15 39 W 33 - W 34 21:45 40 W 35 - W 36			1st-2nd 22:00 44 W 39 - W 40	
WOMEN WPOLO	Morning		09:30 1 A1 vs A3 10:50 2 A2 vs A4 12:10 3 B1 vs B3 13:30 4 B2 vs B4		09:30 9 B4 vs B3 10:50 10 B1 vs B2 12:10 11 C4 vs C3 13:30 12 C1 vs C2		09:30 17 C1 vs C4 10:50 18 C2 vs C3 12:10 19 D1 vs D4 13:30 20 D2 vs D3		09:30 25 1st A - 4th B 10:50 26 2nd A - 3rd B 12:10 27 2nd B - 3rd A 13:30 28 1st B - 4th A							7th-8th 10:00 41 L 37 - L 38 5th-6th 11:30 42 W 37 - W 38 3rd-4th 13:00 43 L 39 - L 40	
	Evening		17:00 5 C1 vs C3 18:20 6 C2 vs C4 20:10 7 D1 vs D3 21:30 8 D2 vs D4		17:00 13 D4 vs D3 18:20 14 D1 vs D2 20:10 15 A4 vs A3 21:30 16 A1 vs A2		17:00 21 A1 vs A4 18:20 22 A2 vs A3 20:10 23 B1 vs B4 21:30 24 B2 vs B3		17:00 29 1st C - 4th D 18:20 30 2nd C - 3rd D 20:10 31 1st D - 4th C 21:30 32 2nd D - 3rd C		15:30 33 W 25 - W 30 17:00 34 W 27 - W 32 20:15 35 W 29 - W 26 21:45 36 W 31 - W 28		5 to 8 15:30 37 L 33 - L 34 17:00 38 L 35 - L 36 1 to 4 20:15 39 W 33 - W 34 21:45 40 W 35 - W 36			1st-2nd 22:00 44 W 39 - W 40	

Preliminaries

Semifinals

Finals

ABBREVIATIONS

SWIMMING:

BU - Butterfly  
BA - Backstroke  
BR - Breaststroke

FR - Freestyle  
IM - Individual Medley  
MD - Medley

RL - Relay  
W - Women  
M - Men

DIVING:

PLAT - Platform  
SYNCH - Synchronised  
SPR - Springboard

HDV - High Diving

WATERPOLO:

L - Loser  
W - Winner



# BCN 2013 BCN 2013

## BARCELONA 2013 15<sup>th</sup> FINA WORLD CHAMPIONSHIPS

15<sup>es</sup> FINA CAMPEONATOS  
DEL MUNDO DE NATACIÓN

15<sup>es</sup> FINA CAMPIONATS  
DEL MON DE NATACIÓ

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## 6. VENUES

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## WORLD BROADCASTERS MEETING / **TV HANDBOOK**

## 6. VENUES



Barcelona has offered of FINA and the Organising Committee of the 15th FINA World Championships Barcelona 2013, the already existing facilities and those that hosted the 1992 Olympic Games and the 10th FINA World Championships of 2003.

The proximity between the various competition sites (10 minutes walk between them), within the Olympic Ring of Barcelona, facilitates the mobility of participating athletes and the audiences of the various competitions.

The 15th FINA World Championships Barcelona 2013 will, for the first time, be using Moll de la Fusta to host the Open Water Swimming and High Diving competitions.

## 6.1 Palau Sant Jordi

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The Palau Sant Jordi is a multi-purpose building with a seating capacity of 12,000, designed by the Japanese architect Arata Isozaki for the Barcelona 1992 Olympic Games. Inside, a temporary 50-metre pool will be the stage for some of the most emblematic events of the Championships.

This architectural masterpiece and symbol of modernity has demonstrated its adaptability over the years. It is highly automated and can be adapted to each different event, and will host the swimming events, the synchronized swimming events and the men and women water polo finals.

Building a swimming pool inside the Palau Sant Jordi is not only an architectural challenge but also a qualitative quantum leap for the swimming and synchro competition. It will give the swimming experience a new dimension.

## Technical characteristics

<b>Owner</b>	Barcelona City Council
<b>Manager</b>	Barcelona Serveis Municipals, S.A.
<b>Architect</b>	Arata Isozaki
<b>Date Opened</b>	21 September 1990, for the BCN 92 O.G.
<b>Distances to...</b>	P. Municipal Montjuïc: 1 Km P. Bernat Picornell: 0.1 Km Port Vell: 2.6 Km MPC and IBC: 0,2 Km City centre: 2.5 Km
<b>Competition to be held</b>	Swimming (preliminaries, semifinals and finals) Synchronized Swimming (preliminaries and finals) Water polo men and women (final) [TBC]
<b>Seating Capacity</b>	12.000 spectators
<b>Pool Dimensions</b>	Temporary indoor pool of 50 x 25 m; 3m deep
<b>Warm-up facilities</b>	Indoor pool of 50 x 20 m, 2m deep

## How to get to Palau Sant Jordi?

<b>Public transportation:</b>	1. Bus: 55, 150 and 13 2. Metro: Lines 1 and 3; stop at Plaza España station. Then take the escalator situated at Avenida María Cristina (7 minutes). 3. Taxi.
<b>Private transportation:</b>	Access from Tarragona Street, Gran Vía de les Corts Catalanes or Avenida Paral·lel. Parking area next to the Palau Sant Jordi.

## 6.2 Piscines Bernat Picornell

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Montjuïc is the magical mountain where entertainment, culture, and sports are concentrated. One of the city's emblematic buildings, the Piscines Bernat Picornell, is located here. It was one of the venues of the Barcelona 1992 Olympic Games, and it will now be hosting the Water Polo Men and Women competition, except the final. Its design and the aesthetics of the facilities and surroundings create the perfect landscape for this event.

## Technical characteristics

<b>Owner</b>	Barcelona City Council
<b>Manager</b>	Aigua, Esports i Salut, S.L.
<b>Architect</b>	Antoni Lozoya, Pere Ricart and Aleix Agull
<b>Date Opened</b>	1970, the XII Swimming European Champs.
<b>Refurbishment architects</b>	Franc Fernández and Moisés Gallego, by the company "Estudi Camp d'Enginyeria"
<b>Opening after refurbishing</b>	15 July 1991, for the BCN'92 O.G.
<b>Distances to...</b>	P. Municipal Montjuïc: 1 Km Palau Sant Jordi: 0.1 Km Port Vell: 2.6 Km MPC and IBC: 0,1 Km City centre: 2.5 Km
<b>Competition</b>	Water Polo Men and Women (preliminaries to semifinals)
<b>Seating Capacity</b>	5.500 spectators
<b>Competition area</b>	Outdoor pool of 50 x 25 m.; between 2,25 and 3 m deep
<b>Warm-up facilities</b>	Indoor pool of 50 x 25 m

## How to get to Piscinas Bernat Picornell?

<b>Public transportation:</b>	<ol style="list-style-type: none"> <li>1. Bus: 55, 150 and 13</li> <li>2. Metro: Lines 1 and 3; stop at Plaza España station. Then take the escalator situated at Avenida María Cristina (7 minutes).</li> <li>3. Taxi.</li> </ol>
<b>Private transportation:</b>	Access from Tarragona Street, Gran Vía de les Corts Catalanes or Avenida Paralelo. Parking area next to the Palau Sant Jordi.



### 6.3 Piscina Municipal Montjuïc

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Divers in mid-air with the city behind them were one of the most memorable and enduring images of the Barcelona 1992 Olympic Games and FINA World Championships in 2003. It's an unbeatable backdrop for the diving events.

They will be held here again in 2013: The Piscines de Montjuïc, where the diving competition will take place, give the spectator a commanding view. They are a natural vantage point from which you can gaze down on the whole city.

The Diving competition is in itself spectacular; imagine what it would mean to see these men and women literally flying over Barcelona.

## Technical characteristics

<b>Owner</b>	Barcelona City Council
<b>Manager</b>	Aigua, Esports i Salut, S.L.
<b>Architect</b>	Antoni de Moragas, by the company "Barning"
<b>Re-opening</b>	29 April 1992, for the Barcelona 92 O.G.
<b>Distances to...</b>	P. Bernat Picornell: 1 Km Palau Sant Jordi: 1 Km Port Vell: 1.6 Km MPC and IBC: 1.2 Km City centre: 2 Km
<b>Competition</b>	Diving (preliminaries and finals)
<b>Seating Capacity</b>	4.100 spectators
<b>Competition area</b>	Pool 25m x 25m; 5m deep

## How to get to Piscina Municipal Montjuïc?

<b>Public transportation:</b>	<ol style="list-style-type: none"> <li>1. Bus: 55, 150 and 13</li> <li>2. Metro: Lines 1 and 3; stop at Plaza España Station. Then take the escalator situated at Avenida María Cristina (7 minutes).</li> <li>3. Funicular de Montjuïc.</li> <li>4. Taxi.</li> </ol>
<b>Private transportation:</b>	Access from the Tarragona Street, Gran Vía de les Corts Catalanes or Avenida Paralelo. Parking area next to the Palau Sant Jordi.

## 6.4 Moll de la Fusta

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### Open Water Swimming

The Open Water Swimming competition, with events of 5, 10 and 25 kilometers, will present a new perspective of Barcelona: the city seen from the sea. These events will be a symbol of the origins of swimming in the city, of the city's openness to the sea, its Mediterranean spirit and of the "Swimming Fiesta".

Competitors will have to swim inside the harbor of Barcelona. They'll make a circuit of 2.5 km for 5 and 10 km event, for team event, and a circuit of 5km for 25km event. Here they will have a special view of the World Trade Centre and the Porta d'Europa (the world's longest port bridge). The swimmers will swim around the Maremagnum, a shopping and recreational center that welcomes 18 million visitors each year, and then the Port Vell at the beginning of the Ramblas, in the heart of Barcelona.

The Open Water Swimming competition, besides being a great sport for spectators, will offer some unbelievable views uniting city, sea and sport. It will be a unique opportunity to enjoy the seashore and the beaches of Barcelona.

### High Diving

For the first time in the FINA World Championships history, a High Diving Competition will be held. Using the same facilities than OWS, a diving tower of 27m height will be built for men and one for women of 18m height. The public will be able to see the competition from around the 'Moll de la Fusta'.

The High Diving competition, besides being a great spectator sport, will offer some unbelievable views uniting city, sea and sport. It will be a unique opportunity to enjoy the seashore and the beaches of Barcelona, with the spectacular jumps of these authentic challengers of the big jumps.

## Technical characteristics

<b>Owner</b>	Barcelona City Council
<b>Manager</b>	Port de Barcelona
<b>Date Opened</b>	July 1992
<b>Distances to...</b>	P. Municipal Montjuïc: 2 Km P. Bernat Picornell: 3 Km Palau Sant Jordi: 2,4 Km MPC and IBC: 2,9 Km City centre: 0,5 Km
<b>Competition</b>	Open Water Swimming and High Diving
<b>Seating Capacity</b>	30.000 spectators
<b>Competition area</b>	Pool of 25m x 25m; 5m deep

## How to get to Moll de la Fusta?

<b>Public transportation:</b>	1. Bus: There are many bus stops close to the finish line and the tower for High Diving. 2. Metro: Line 4 (Barceloneta Station). 3. Taxi.
<b>Private transportation:</b>	Access from Colon Square, Ramblas and Via Laietana. Parking area.

# BCN 2013 BCN 2013

## **BARCELONA 2013 15<sup>th</sup> FINA WORLD CHAMPIONSHIPS**

15<sup>os</sup> FINA CAMPEONATOS  
DEL MUNDO DE NATACIÓN

15<sup>es</sup> FINA CAMPIONATS  
DEL MON DE NATACIÓ

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## 7. PRODUCTION OF INTERNATIONAL FEED

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WORLD BROADCASTERS MEETING / **TV HANDBOOK**

## 7. PRODUCTION OF INTERNATIONAL FEED

### Philosophy of Coverage

The role of the Host Broadcaster for the 15th FINA World Championships Barcelona 2013 will be played by Radiotelevision Española (RTVE) in collaboration with Televisió de Catalunya (TVC).

Our professional teams have been working closely together in the past two years to design a creative, high quality and comprehensive coverage plan to produce and transmit the best possible radio and television coverage of the event.

The HB Production Plan for the 15th FINA World Championships BCN2013 is built on the creative and technical efforts from previous similar competitions and takes into consideration the specific characteristics of the sites where the Barcelona 2013 Championships will take place.

With many years international experience in sports production, the professional team of the Host Broadcaster is devoted to provide the RHBs the best possible coverage of the FINA Championships, the highest level aquatics event in the World, in an extremely vigorous and passionate way.

Our production goals as Host Broadcaster include:

- Uncompromisingly fair and unbiased coverage of the competition, with equal coverage of each competitor;
- Insightful, informed and credible storytelling through appropriate shot selection and replay sequences;
- Integration of the audio nuances intrinsic to the competition;
- Clear and informative graphic presentation;
- Editorially thoughtful and consistent coverage of medal presentation ceremonies;
- Enhancement of the viewer's appreciation of the athletes' efforts and of the drama inherent in the FINA World Championships competitions.

### Production

#### HDTV

The Host Broadcaster will produce all international multilateral signals in High Definition (16:9) and following 50Hz specifications. The HDTV signal standard will be 1485 Mbps 1080i/50 SMPTE-292M, with up to eight embedded audio.

SD Vanda Package can also be made available to RHBS at the IBC upon specific request.

### **Audio**

All audio will be produced Surround Sound 5.1 with all eight channels embedded in the HD stream. International Sound for Radio will be produced as stereo only, and will be available to the RHBS in the IBC, as part of their package, in MADI format (AES10-64 channels), or analogue pairs upon request.

### **SSM (Super Slow Motion) & HSSM (High Super Slow Motion) Cameras**

The HB will utilize Super Slow Motion (SSM) and High Speed Super Slow Motion (HSSM) cameras across the venues during the FINA World Championships. The HSSM cameras will provide spectacular action ranging from 600 to 1000 frames per second.

### **Specialty cameras**

The HB plans to utilize a number of specialty cameras systems as part of its overall production plan (aerial cameras, underwater cameras, track-cams, dive-cams, gyrostabilised systems...). These cameras will enhance the coverage of the sports, while also capturing the ambiance of the crowd and the atmosphere at the venues.

### **Beauty cameras**

Three Beauty cameras in HDTV (1920H/1080V), no audio, will be offered as isolated feed. They will be located in the following city hotspots:

- Beauty Cam 1: Palau Sant Jordi venue (shot from Montjuïc Olympic Stadium)
- Beauty Cam 2: Barcelona Port area (shot from the World Trade Centre building)
- Beauty Cam 3: Barcelona city (shot from Collserola Telecommunications Tower)

### **Graphics**

Swiss Timing will be responsible for designing all television graphics. The HB and Swiss Timing will work together to build a proper interface to integrate all graphics and the venue data and timing systems with the international feeds.

The design will be produced at the aspect ratio of 16:9 (HD) with the 4:3 safe-area of standard television format. The television graphics and texts will be produced in English language.



The virtual graphics will be adopted in Swimming, with applications of the lane number, the country flag, the name of each athlete, etc., and in Diving, with the preview of the competitor dive.

### Opening and Closing Animation

The HB will produce opening and closing animations that will define the start and the end of each transmission. The opening animation will run for 20 seconds and mark the beginning of the coverage. A similar animation will signal the end of the transmission.

### Replays

The HB will produce a number of replays to be included during transmissions. Replays will vary according to each sport and will include line replays, tight action, close-up of competitors, alternative angles, etc.

The transition between live coverage and replays will be carried out with a graphic effect which will be the same for all disciplines. All replays will be rolling both in and out of the clips. Replays will not interfere with live action and will be at the discretion of the HB's producer and director.

### Basic feed Allocation

Sport	Feed allocation
<b>Synchronized Swimming / Swimming / Summaries</b>	Feed 1
<b>Water Polo</b>	Feed 2
<b>Diving</b>	Feed 3
<b>Open Water Swimming (including 25k summary) / High Diving</b>	Feed 4

### Transmission Procedure

Each International TV Feed will be identified with a Transmission Advisory Graphic. The Advisory Graphics will identify the sport and the venue with transmission start times in reference to the Greenwich Mean Time (GMT).

Barcelona summer local time is: GMT+2. The international TV feed will commence 60 minutes prior to the event start time, and proceed to a 5/10-

minute run up which includes opening animation, clean wide shots and appropriate graphic information. Each session will conclude with a 3-minute run out containing results, replays and closing animation. Pre & Post unilateral transmissions will be available to RHBs prior to and at the conclusion of each session.

The International Sound for Radio will commence 30 minutes prior to the start of the event and will conclude 30 minutes after the end of the session.

## **Summaries**

A 52-minute edited summary will be available daily, played out from the IBC.

Each summary will begin with the opening animation and end with the closing animation, incorporating venue wide shots. Audio will be split track with voice over and International Sound. A running order will be available to RHBs in advance to the play-out.

The feed time of the summaries is currently proposed to be 24:00 local time.

An additional 15-minute edited summary will also be produced for the Open Water Swimming 25k events (M & F). This summary will be played out 3 hours after the end of the competition.

A 90-minute edited summary of the Championships will be available following the completion of the competitions on the final day. The transmission time of this 90-minute summary will be advised sufficiently in advance.

## **English Guide Commentary**

A guide commentary in English language will be provided on all live HB international feeds, including summaries. HB guide commentary will begin after the opening animation and conclude before the closing animation. Commentators will make breaks to enable editing. The guide commentary will follow instructions coming from the HB Production team.

# BCN 2013 BCN 2013

## BARCELONA 2013 15<sup>th</sup> FINA WORLD CHAMPIONSHIPS

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## 8. PRODUCTION PLAN

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## WORLD BROADCASTERS MEETING / **TV HANDBOOK**

## 8. PRODUCTION PLAN

### 8.1 Swimming

Palau Sant Jordi will be the venue for Swimming and Synchronized Swimming competitions and the Water Polo finals.

**Production team:** TVE

**1 High Definition OB VAN**

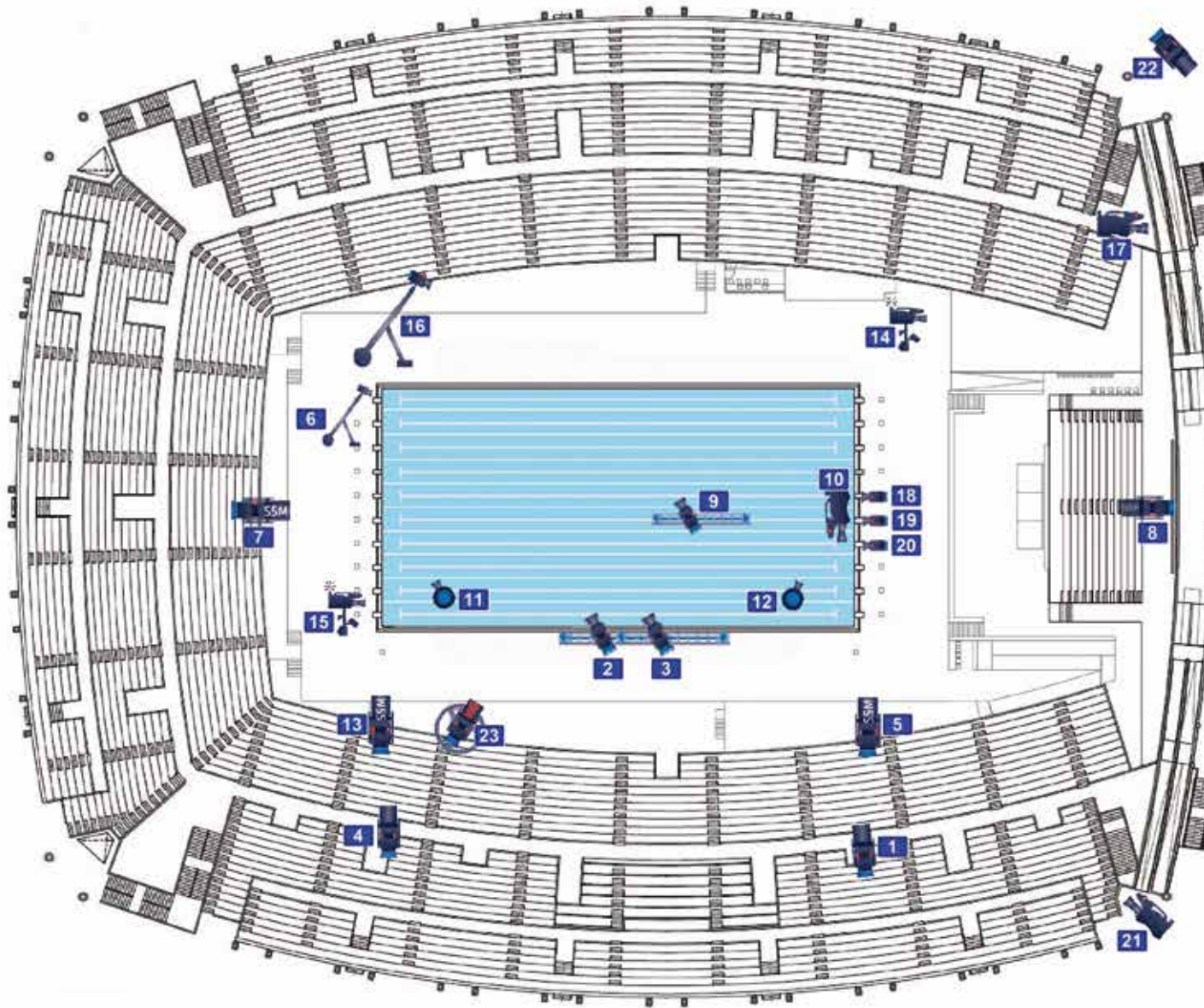
#### SWIMMING Camera Summary

Hard	4	
Hard SSM	3	
Handheld SSM	1	On rail
Hard High Speed	1	
Hand held	1	Beauty shot fixed
Hand held RF	2	With steady cam
Hand held Robotic	3	1 on rail, 2 fixed
Crane robotic	1	8 meters
Mini waterproof	1	Polecam
Mini robotic underwater	3	1 on rail
Mini cam	3	
<b>Total</b>	<b>23</b>	

#### SWIMMING Replays and Recording

EVS (6 Channels)	7
VTRs	3

## SWIMMING MULTILATERAL CAMERA LAYOUT



## SWIMMING MULTILATERAL CAMERA NARRATIVE (1)

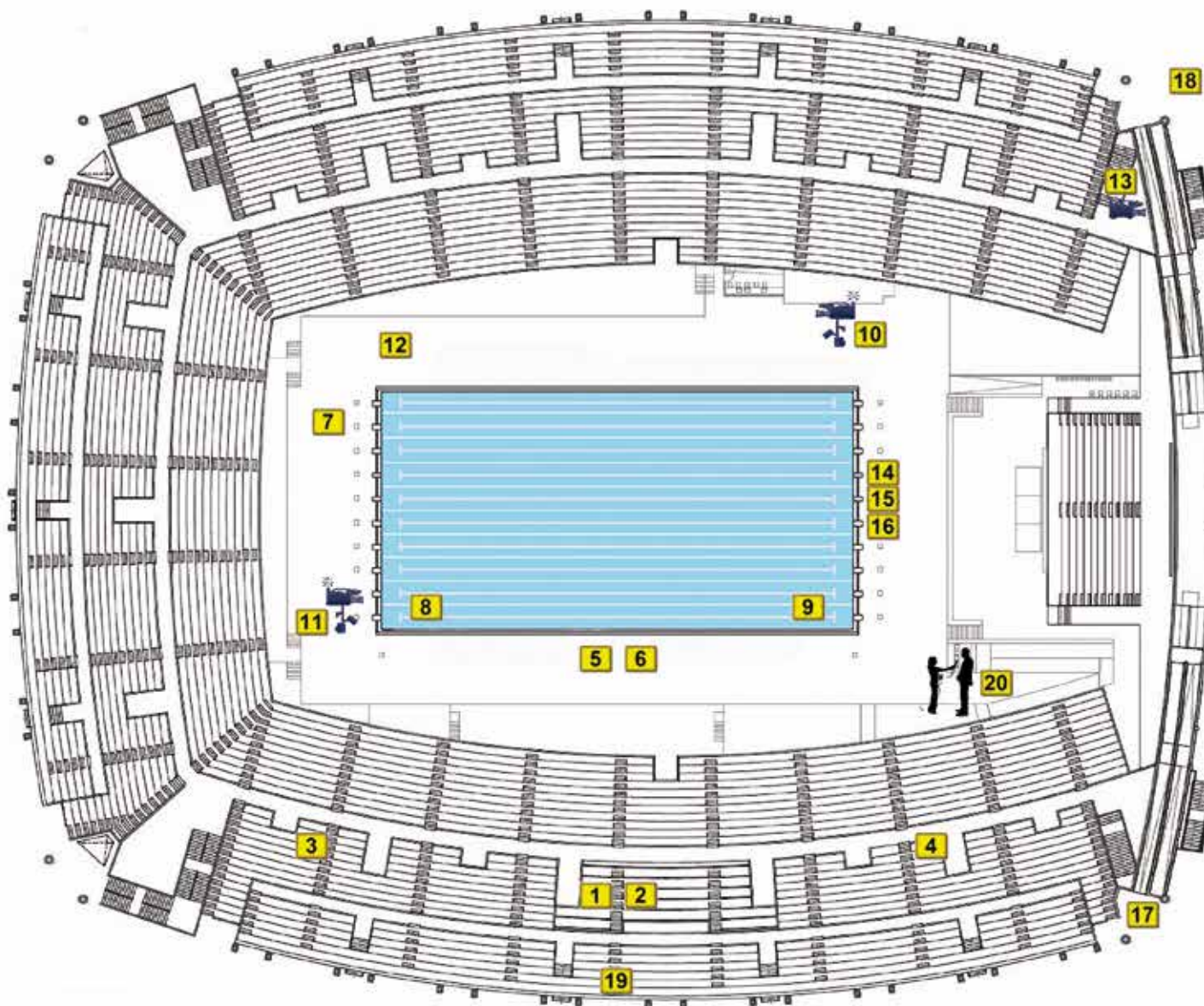
CAM	TYPE	LENS	MOUNT	LOCATION	COVERAGE
1	Hard	23x7	Tripod	High in main stand, in line with start & finish.	Master shot. Wide shot of start & finish. Virtual graphics
2	Handheld robotic	17x7,6	On 40m long rail	Track on the near edge of pool.	Low angle tracking action wide.
3	HH SSM robotic	40x10	On 40m long rail	Track on the near edge of pool.	Low angle tracking action tight.
4	Hard	23x7	Tripod	High in main stand, in line with 50m start.	Master shot start of 50m and turns. Virtual graphics
5	Hard SSM	100x8,9	Tripod	Low in main stand, in line with start & finish.	Tight shot of start & finish. Follows leader of the race.
6	Minicam waterproof	4mm	Man portable Polecam	Roving around turns (50m line).	Close up shots of the leader turns.
7	Hard SSM	100x8,9	Tripod w/wheels	Field of play, facing central lanes. North side of the pool.	Head-on tight shots of the leader of the race.
8	Hard	72x9,3	Tripod	High in South stand.	Head-on high shots of central lanes.
9	Underwater robotic minicam		On 30m long rail	Bottom of pool under lane 4.	Underwater tracking wide.
10	Handheld robotic	17x7,6	Fixed	Above start & finish line. Central lanes.	Overhead shots in turns. Replays of start and finish.
11	Underwater robotic minicam		Small tripod	Mounted on pool floor, 3m off turn end.	Flip turn, 50m starts.
12	Underwater robotic minicam		Small tripod	Mounted on pool floor, 3m off start/finish.	Starts, flip turn.
13	Hard SSM	100x8,9	Tripod	Low in main stand, in line with 50m start.	Tight shot of 50m start and turns. Close up shots of the leader of the race.
14	Handheld RF	11x4,7	Steady-cam	Field of play, roving around the swimmers access area.	Introductions. Ceremonies.
15	Handheld RF	11x4,7	Steady-cam	Field of play, roving around the opposite area of the pool.	Introductions. Follows winner after the race.
16	Handheld "Hot-head"	11x4,7	Crane 8m	Field of play, northeast corner of the swimming pool.	Swimmers on the field of play. Crowd atmosphere. Interaction.
17	Handheld robotic	17x7,6	Fixed to the wall	In athletes call room.	Call room isolation.
18	Minicam		Fixed	Mounted in the starting block of lane 3.	Lane 3 entry and turns, swimmers close-ups.
19	Minicam		Fixed	Mounted in the starting block of lane 4.	Lane 4 entry and turns, swimmers close-ups.
20	Minicam		Fixed	Mounted in the starting block of lane 5.	Lane 5 entry and turns, swimmers close-ups.

## SWIMMING MULTILATERAL CAMERA NARRATIVE (2)

CAM	TYPE	LENS	MOUNT	LOCATION	COVERAGE
21	Handheld	11X4,7	Fixed	In upper right corner of main stand.	Beauty shot.
22	Hard	60x9	Tripod	Warm up pool.	Athletes preparation.
23	High Speed	100x8,9	Low platform	Low in the main stand. Close to the 50m start line. Beside camera 13.	Extreme slow replays of swimmers during competition.



## SWIMMING MULTILATERAL MICROPHONE LAYOUT



## SWIMMING MULTILATERAL MICROPHONE NARRATIVE

SOURCE	TYPE	COVERAGE
1	Mic. Surround	Array 5.1
2	Mic. Stereo	Natural sound Stereo
3	Mic. Cardioid	Natural sound Left
4	Mic. Cardioid	Natural sound Right
5	Hyper-cardioid	Mic. Camera 2. Track-cam covering central lanes
6	Hyper-cardioid	Mic. Camera 3. Track-cam covering leader of the race
7	Mic. Cardioid	Mic. Camera 6. Waterproof Polecam
8	Hydrophone	Hydrophone Camera 11
9	Hydrophone	Hydrophone Camera 12
10	Hyper-cardioid	Mic. Camera 14. Steady-cam. Pool access. Introductions
11	Hyper-cardioid	Mic. Camera 15. Steady-cam. Pool atmosphere before and after the races
12	Hyper-cardioid	Mic. Camera 16. Crane. Crowd atmosphere. Stereo
13	Hyper-cardioid	Mic. Camera 17. Call room. Stereo
14	Mic. Cardioid	Mic. Camera 18. Starting block lane 3
15	Mic. Cardioid	Mic. Camera 19. Starting block lane 4
16	Mic. Cardioid	Mic. Camera 20. Starting block lane 5
17	Hyper-cardioid	Mic. Camera 21. Beautyshot. General atmosphere at the venue. Stereo
18	Hyper-cardioid	Mic. Camera 22. Natural sound at the warm up swimming pool. Stereo
19	Tie-line	Anthems. Ceremonies. Public address. Stereo
20	Mic. Cardioid	Pre & Post Unilaterals.

## 8.2 Open Water Swimming

The Open Water Swimming and the High Diving competitions will take place in Moll de la Fusta, at the Barcelona Old Port.

**Production team:** TVE

**1 High Definition OB VAN**

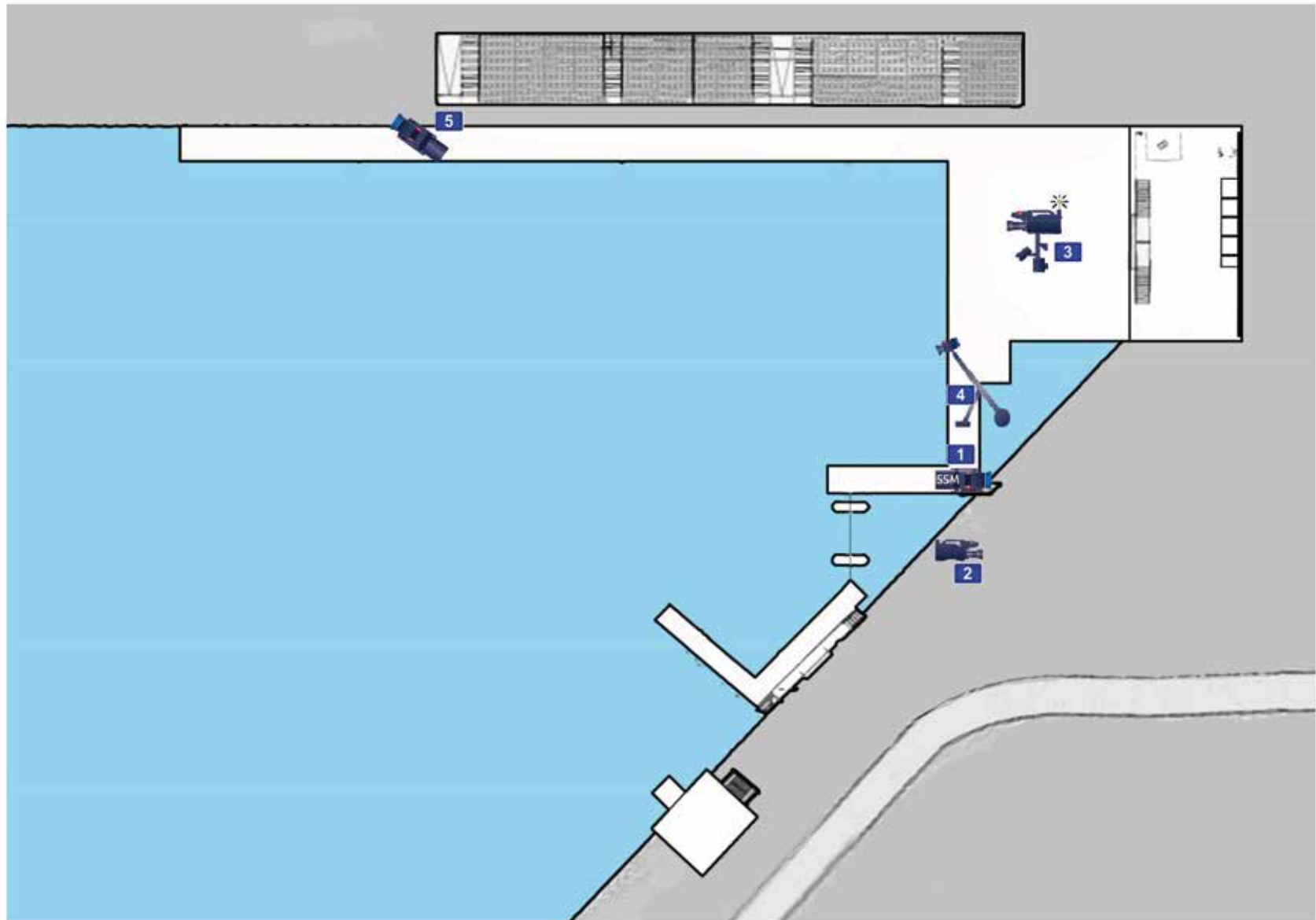
### OPEN WATER SWIMMING Camera Summary

Hard	5	
Hard SSM	1	1 robotic rail
Hard RF	2	
Hand held	1	
Hand held RF	4	1 with steady-cam
Crane robotic	2	12 meters
Mini waterproof RF	1	Polecam
ENG	2	25k summary
Wescam	2	
<b>Total</b>	<b>20</b>	

### OPEN WATER SWIMMING Replays and Recording

EVS (6 Channels)	4
VTRs	3

## OPEN WATER SWIMMING MULTILATERAL CAMERA LAYOUT (START/FINISH)

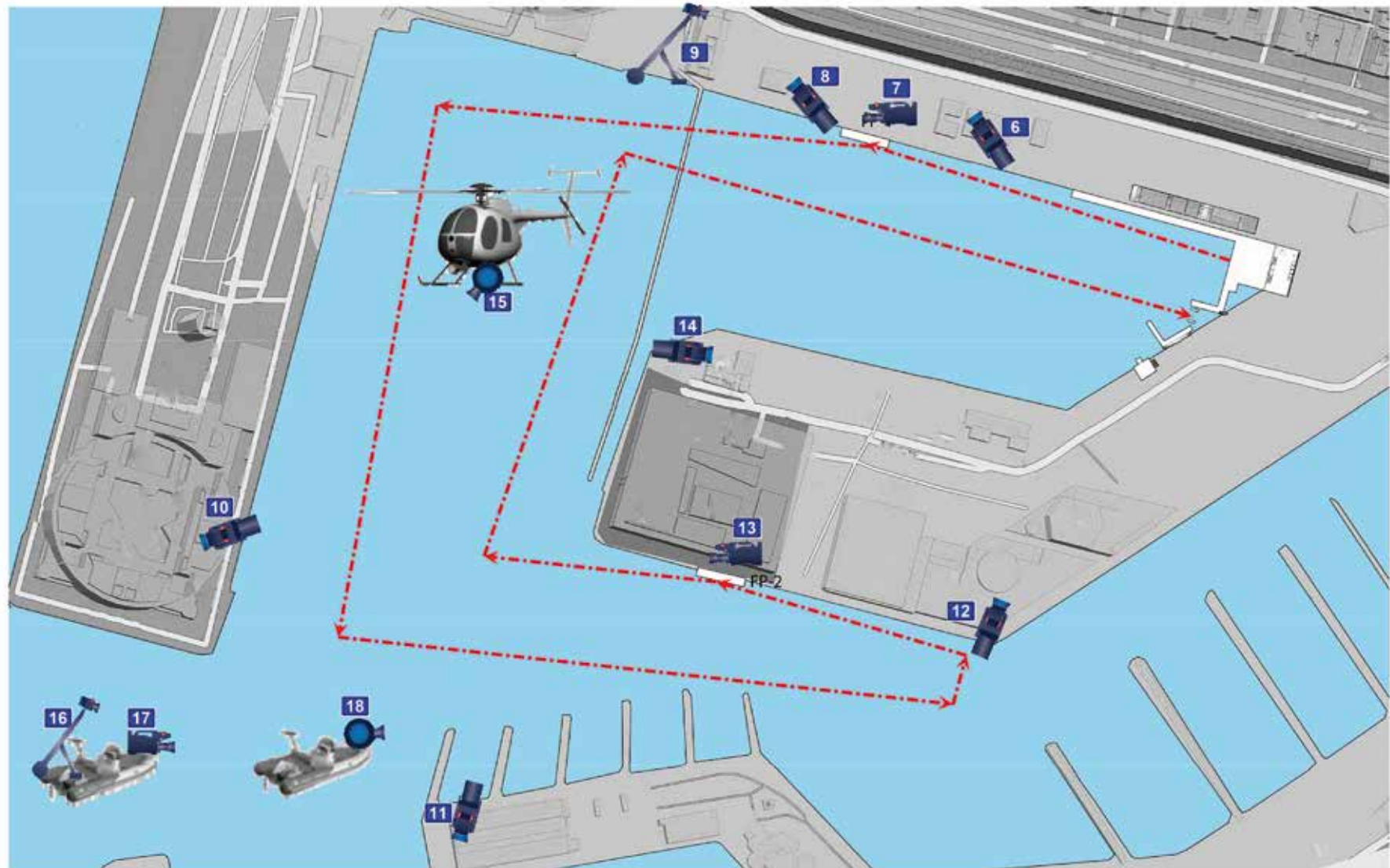


## OPEN WATER SWIMMING MULTILATERAL CAMERA NARRATIVE (START/FINISH)

CAM	TYPE	LENS	MOUNT	LOCATION	COVERAGE
1	SSM	100x8,9	Tripod	On a 2m high platform at the start/finish area.	Start and finish. Ceremonies. Replays.
2	Handheld RF	11x4,7	Man portable	Roving at the start/finish area.	Athletes before and after competition.
3	Handheld RF	11x4,7	Steady-cam	Roving at the start/finish pontoon.	Athletes presentation. Jump into water and water exit.
4	Handheld "Hot head"	17x7,6	Crane 12m	On a platform adjacent to water by the start pontoon.	Athletes presentation. Jump into water and water exit. Crowd. Ceremonies.
5	Hard	60x9	Tripod	On a pontoon 50m far from the start/finish line.	Master shot in starts. Finish action.



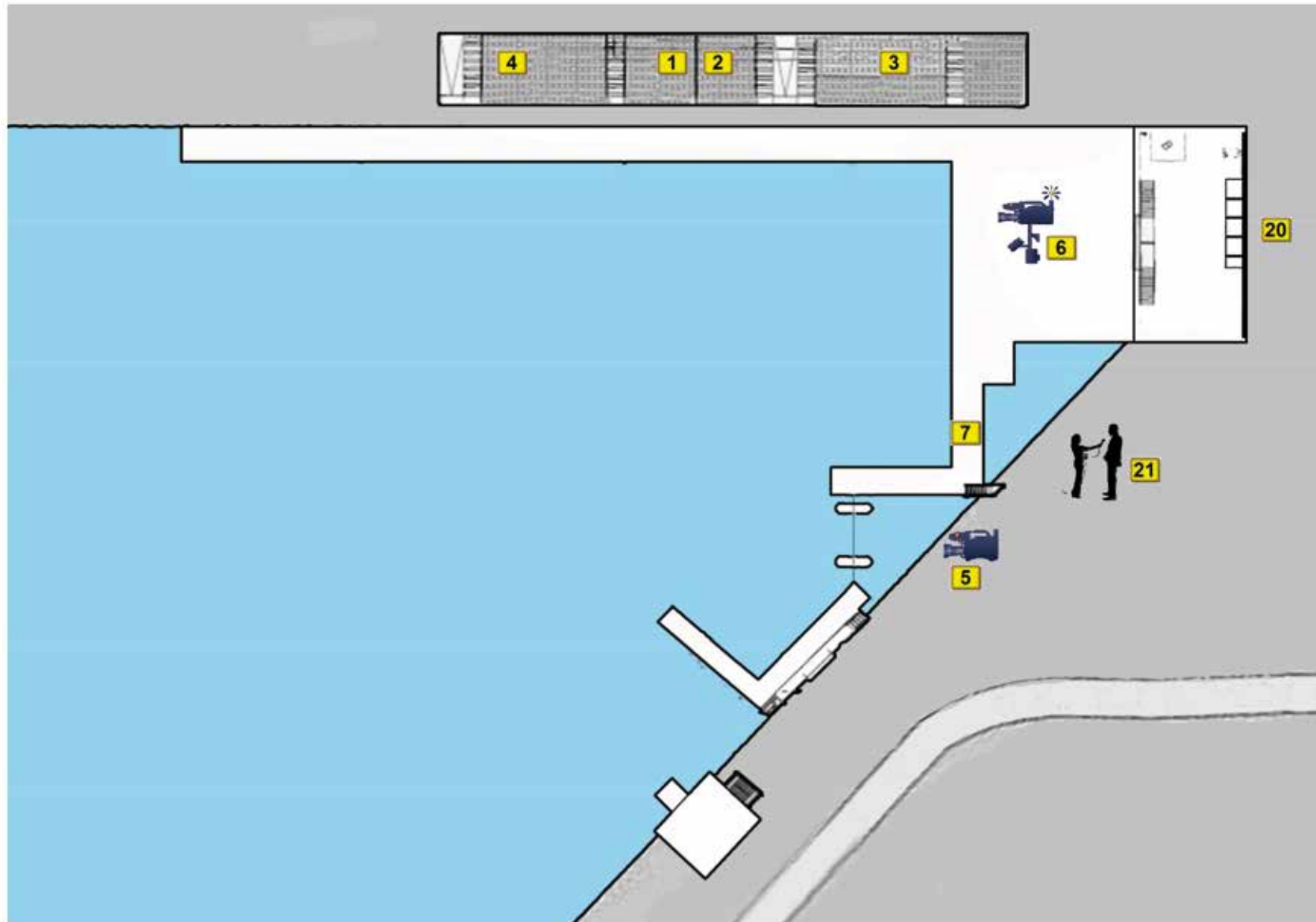
## OPEN WATER SWIMMING MULTILATERAL CAMERA LAYOUT (ON COURSE – 5KM AND 10KM EVENTS)



## OPEN WATER SWIMMING MULTILATERAL CAMERA NARRATIVE ON COURSE – 5KM AND 10KM EVENTS

CAM	TYPE	LENS	MOUNT	LOCATION	COVERAGE
6	Hard	60x9	Tripod	On a pontoon 100m far from the start/finish line.	Following action.
7	Handheld RF	17x7,6	Man portable	Roving around the first feeding platform.	Tight shots of swimmers in first feeding point.
8	Hard	72x9,3	Tripod	On a pontoon 250m far from the start/finish line.	Following action.
9	Handheld "Hot head"	17x7,6	Crane 12m	Close to the bridge at <i>Rambla del Mar</i> .	Following action. Crowd atmosphere.
10	Hard RF	60x9	Tripod	At the World Trade Center terrace.	Following action. Beauty shot.
11	Hard RF	72x9,3	Tripod	At the <i>Moll de Balears</i> , facing the <i>Rambla del Mar</i> .	Following action.
12	Hard	60x9	Tripod	At the <i>Moll de Espanya</i> , looking to the turn around buoy.	Following action.
13	Handheld	17x7,6	Man portable	Roving around the second feeding platform.	Tight shots of swimmers in second feeding point.
14	Hard	60x9	Tripod	At the <i>Rambla del Mar</i> .	Following action.
15	Wescam RF		Helicopter	Flying over the competition area.	Overhead shots of competition.
16	Minicam waterproof	4mm	Man portable Polecam	On tracking boat.	Following action. Tights shots of swimmers.
17	Handheld RF stabilised	17x7,6	Man portable	On tracking boat.	Following action.
18	Wescam RF		Fixed	On tracking boat.	Following action.

## OPEN WATER SWIMMING MULTILATERAL MICROPHONE LAYOUT (START/FINISH)

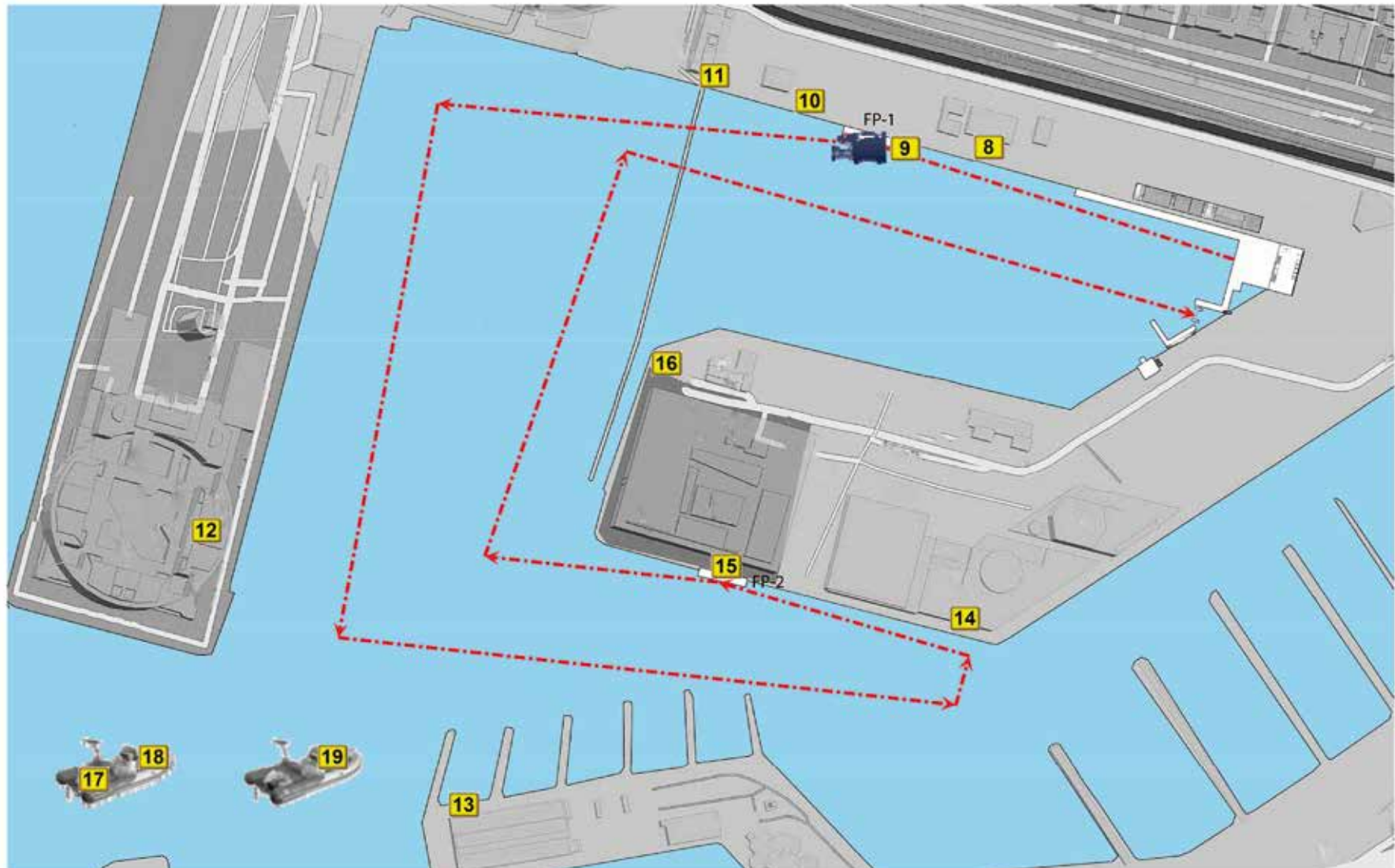




## OPEN WATER SWIMMING MULTILATERAL MICROPHONE NARRATIVE (START/FINISH)

SOURCE	TYPE	COVERAGE
1	Mic. Surround	Array 5.1
2	Mic. Stereo	Natural sound Stereo
3	Mic. Cardioid	Natural sound Left
4	Mic. Cardioid	Natural sound Right
5	Hyper-cardioid	Mic. Camera 2 RF Handheld. Introductions. Athletes before and after competition
6	Hyper-cardioid	Mic. Camera 3 RF. Steady-cam. Athletes presentation. Jump into water and water exit.
7	Hyper-cardioid	Mic. Camera 4. Crane 12m. General atmosphere at the venue
20	Tie-line	Anthems. Ceremonies. Public address. Stereo
21	Mic. Cardioid	Pre & Post Unilaterals.

## OPEN WATER SWIMMING MULTILATERAL MICROPHONE LAYOUT (ON COURSE – 5KM AND 10KM EVENTS)



## OPEN WATER SWIMMING MULTILATERAL MICROPHONE NARRATIVE (ON COURSE – 5KM AND 10KM EVENTS)

SOURCE	TYPE	COVERAGE
8	Hyper-cardioid	Mic. Camera 6. Following action
9	Hyper-cardioid	Mic. Camera 7. Handheld. Swimmers at first feeding point
10	Hyper-cardioid	Mic. Camera 8. Following action
11	Hyper-cardioid	Mic. Camera 9. Following action
12	Hyper-cardioid	Mic. Camera 10 RF. Beautyspot at World Trade Centre
13	Hyper-cardioid	Mic. Camera 11 RF. Following action
14	Hyper-cardioid	Mic. Camera 12. Following action
15	Mic. Cardioid	Mic. Camera 13. Polecam. Swimmers at second feeding point
16	Hyper-cardioid	Mic. Camera 14. Following action
17	Mic. Cardioid	Mic. Camera 16. On board underwater Polecam
18	Hyper-cardioid	Mic. Camera 17. Handheld on board
19	Hyper-cardioid	Mic. Camera 18. Wescam on board

## 8.3 Synchronized Swimming

Palau Sant Jordi will be the venue for Swimming and Synchronized Swimming competitions and the Water Polo finals.

**Production team:** TVE

**1 High Definition OB VAN**

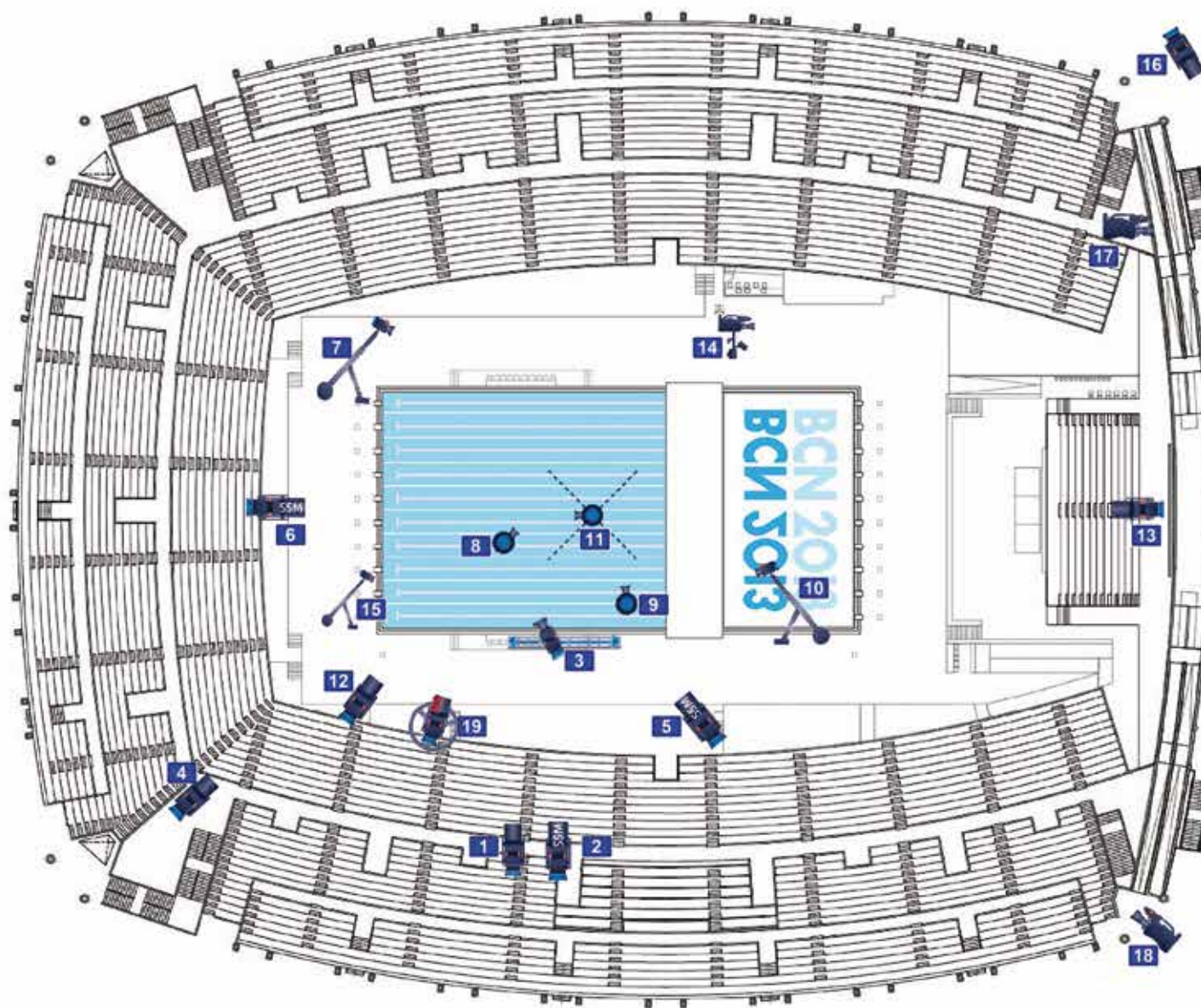
### SYNCHRONIZED SWIMMING Camera Summary

Hard	5	
Hard SSM	3	
Hard High Speed	1	
Hand held	1	Beauty shot fixed
Hand held SSM	1	On rail
Hand held RF	1	With steady cam
Crane robotic	2	8 meters
Mini waterproof	1	Polecam
Hand held Robotic	1	Fixed
Mini robotic underwater	2	
Fly cam 2D	1	
<b>Total</b>	<b>19</b>	

### SYNCHRONIZED SWIMMING Replays and Recording

EVS (6 Channels)	7
VTRs	3

## SYNCHRONIZED SWIMMING MULTILATERAL CAMERA LAYOUT

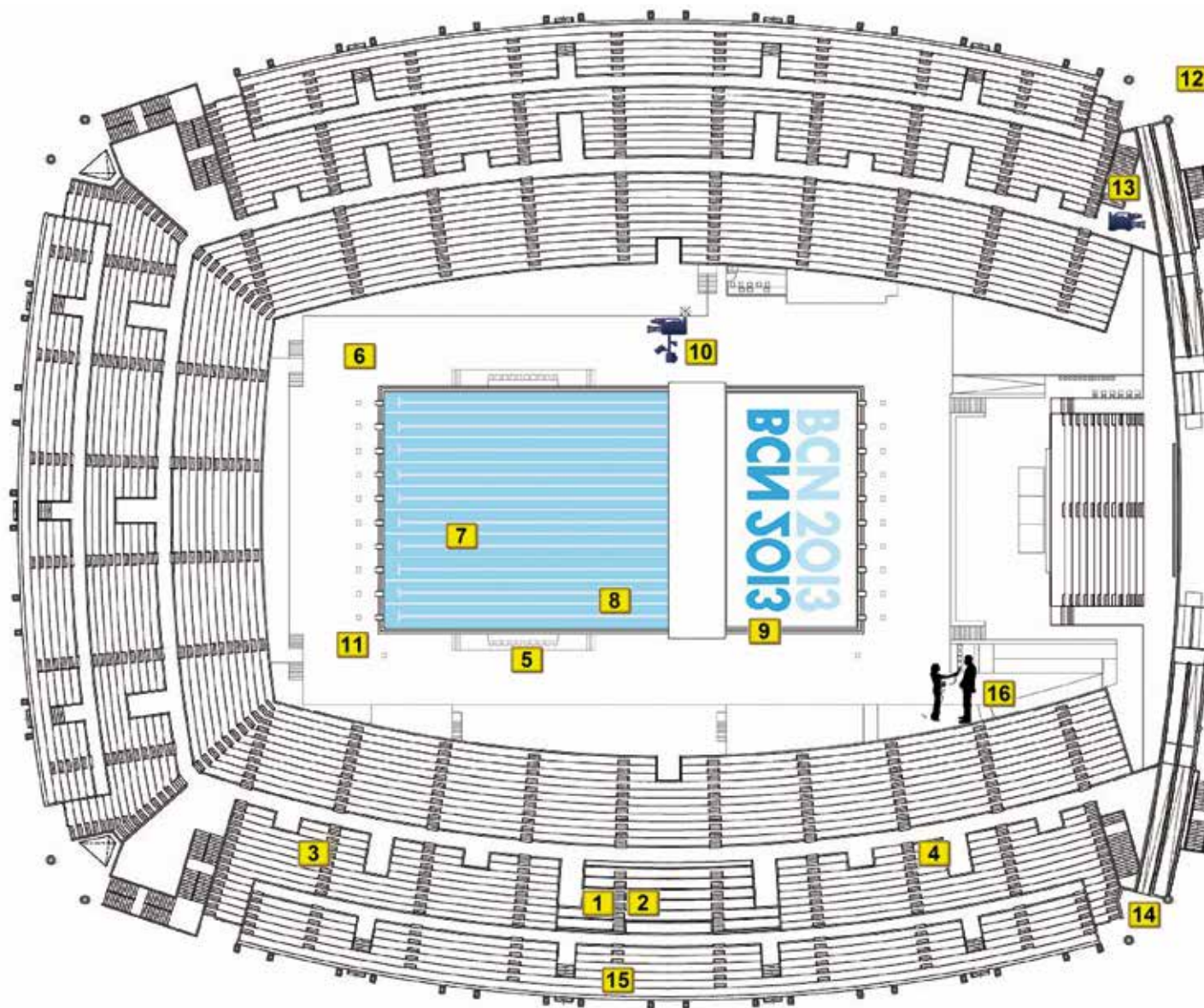




## SYNCHRONIZED SWIMMING MULTILATERAL CAMERA NARRATIVE

CAM	TYPE	LENS	MOUNT	LOCATION	COVERAGE
1	Hard	23x7	Tripod	High center in main stand.	Master shot.
2	SSM	100x8,9	Tripod	High center in main stand (beside camera 1).	Close ups and replays.
3	HH SSM robotic	40x10	On 40m long rail	Track on the near edge of pool.	Low angle tracking action.
4	Hard	60x9	Tripod	High in north corner of main stand.	Wide shots, following action.
5	SSM	100x8,9	Tripod	Field of play. South corner of main stand.	Action isolation. Tight shots. Replays.
6	SSM	100x8,9	High-Low Platform	Field of play. Center of north stand.	Action isolation. Tight shots. Replays.
7	Handheld "Hot head"	11x4,7	Crane 8m	Field of play. North east corner.	Pool atmosphere. Action isolation.
8	Underwater robotic minicam		Small tripod	Center bottom of pool.	Underwater action.
9	Underwater robotic minicam		Small tripod	Left side bottom of pool.	Swimmers jumping into the pool. Underwater action.
10	Handheld "Hot head"	11x4,7	Crane 8m	Field of play. South west corner.	Introductions. Action isolation out and in the pool. Ceremonies.
11	Fly Cam 2D		Cable	Roving above Field of Play.	Overhead tracking.
12	Hard	72x9,3	Tripod	Field of play. North corner of main stand.	Action isolation. Tight shots.
13	Hard	72x9,3	Tripod	High center in south stand.	Action isolation.
14	Handheld RF	11x4,7	Steady-cam	Field of play. Roving around the swimmers access area.	Following swimmers accessing to the competition pool.
15	Minicam waterproof	4mm	Man portable Polecam	Roving around north west corner of pool.	Close up shots of swimmers at the pool exit.
16	Hard	60x9	Tripod	Warm up pool.	Competitors in warm up pool.
17	Handheld robotic	17x7,6	Fixed to the wall	In athletes call room.	Call room isolation.
18	Handheld	11x4,7	Fixed	High south corner of main stand.	Beauty shot.
19	High Speed	100x8,9	Very low platform	Low north of main stand.	Replays

## SYNCHRONIZED SWIMMING MULTILATERAL MICROPHONE LAYOUT



## SYNCHRONIZED SWIMMING MULTILATERAL MICROPHONE NARRATIVE

SOURCE	TYPE	COVERAGE
1	Mic. Surround	Array 5.1
2	Mic. Stereo	Natural sound Stereo
3	Mic. Cardioid	Natural sound Left
4	Mic. Cardioid	Natural sound Right
5	Hyper-cardioid	Mic. Camera 3. Track-cam
6	Hyper-cardioid	Mic. Camera 7. Crane. Crowd atmosphere. Stereo
7	Hydrophone	Hydrophone Camera 8
8	Hydrophone	Hydrophone Camera 9
9	Hyper-cardioid	Mic. Camera 10. Luma. Action out of the pool. Stereo
10	Hyper-cardioid	Mic. Camera 14. Steady-cam. Swimmers accessing to the competition pool.
11	Mic. Cardioid	Mic. Camera 15. Polecam. Swimmers at the pool exit
12	Hyper-cardioid	Mic. Camera 16. Warm up swimming pool. Stereo
13	Hyper-cardioid	Mic. Camera 17. Call room
14	Hyper-cardioid	Mic. 18. Beautyspot. General atmosphere at the venue. SCamera tereo
15	Tie-line	Anthems. Ceremonies. Public address. Stereo
16	Mic. Cardioid	Pre & Post Unilaterals.



## 8.4 Diving

The Piscina Municipal de Montjuïc will host the Diving competitions.

**Production team:** TVE

**1 High Definition OB VAN**

### DIVING Camera Summary

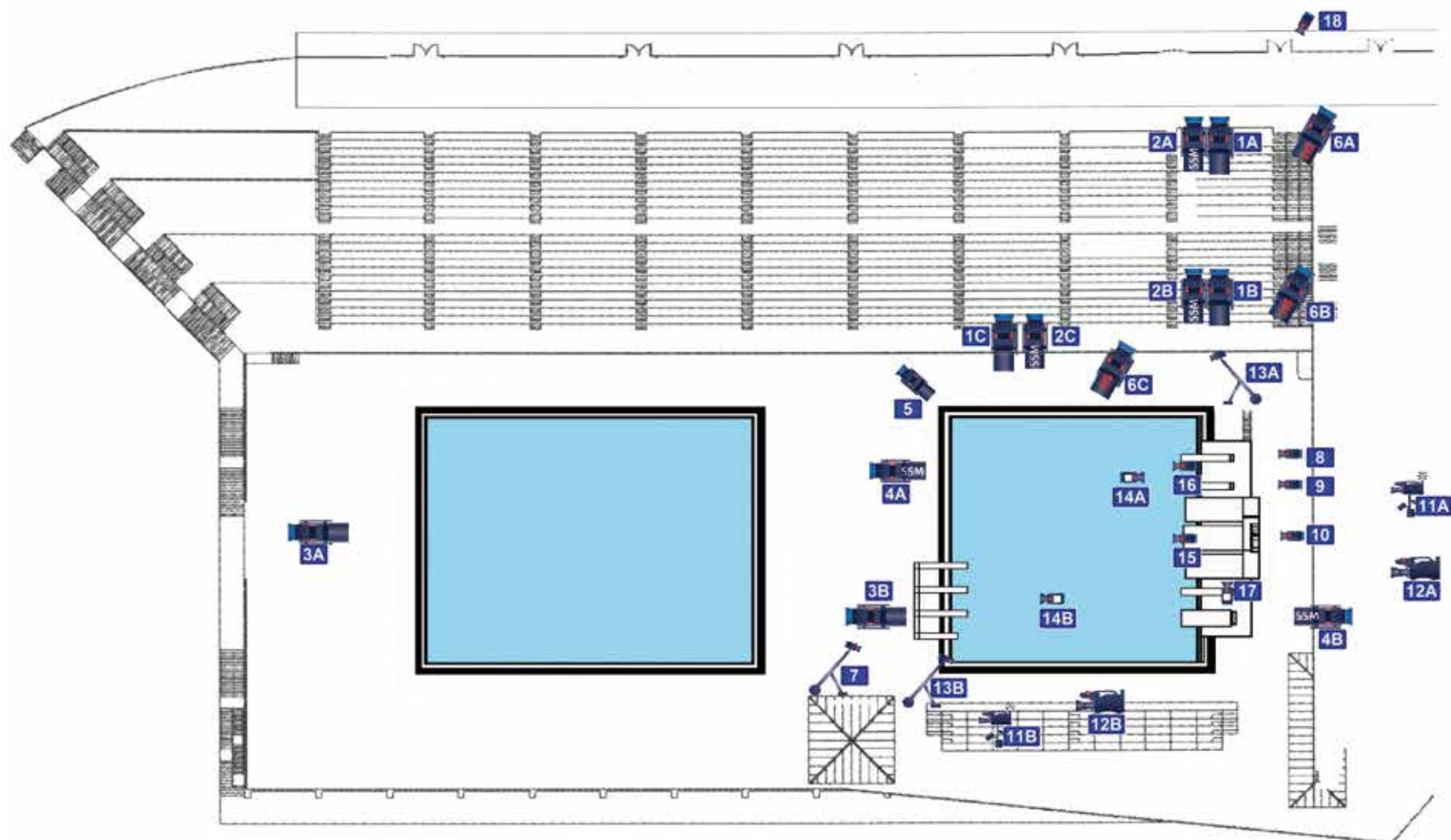
Hard	3	
Hard SSM	2	1 robotic rail
Hard High Speed	1	
Hand held	3	Fixed
Hand held RF	2	1 with steady cam
Crane robotic	1	8 meters
Mini robotic underwater	2	1 with Polecam
Mini robotic	3	Fixed
Dive cam	1	
<b>Total</b>	<b>18</b>	

### DIVING

#### Replays and Recording

EVS (6 Channels)	4
VTRs	3

## DIVING MULTILATERAL CAMERA LAYOUT



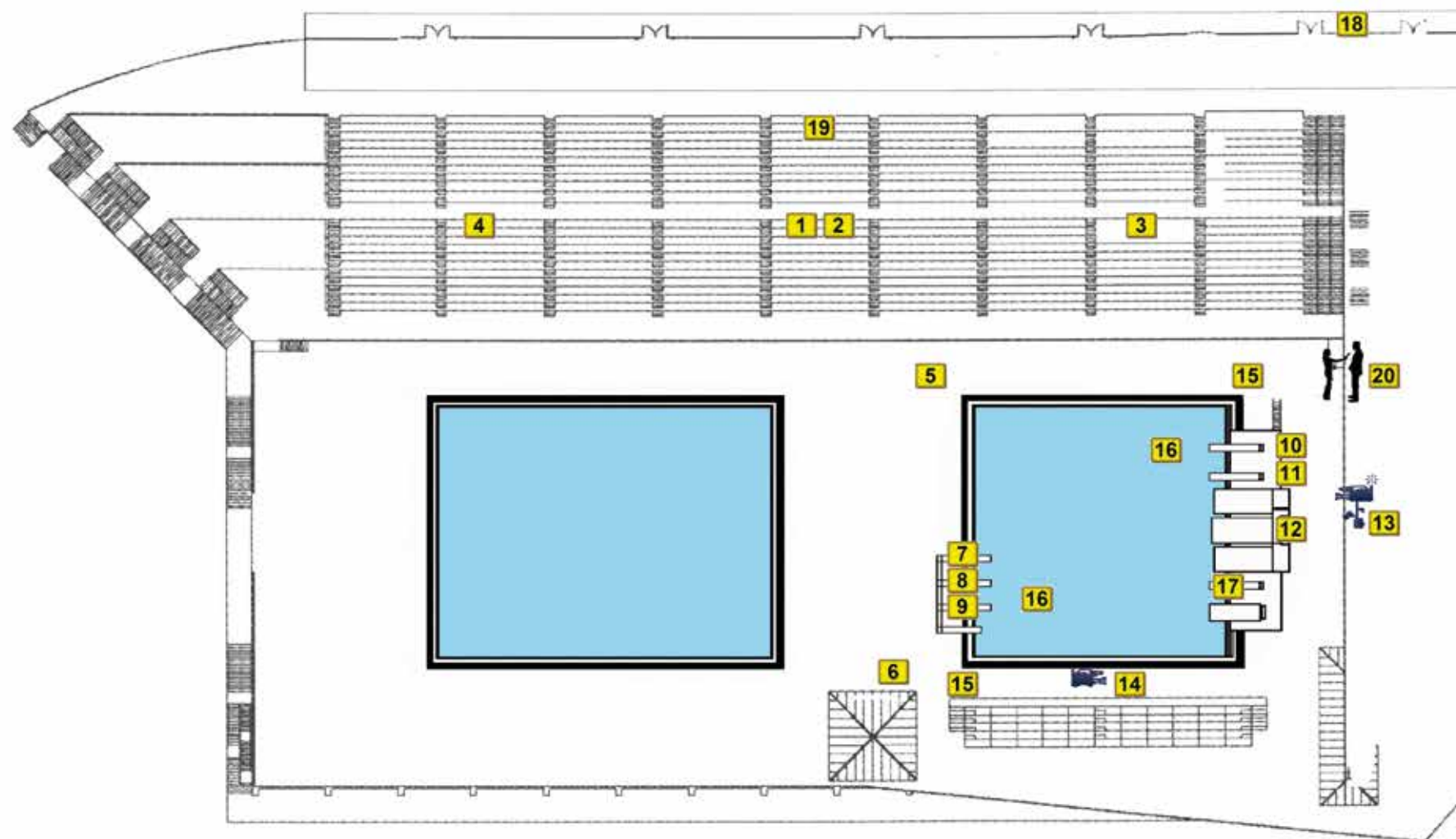
## DIVING MULTILATERAL CAMERA NARRATIVE (1)

CAM	TYPE	LENS	MOUNT	LOCATION	COVERAGE
1A	Hard	23x7	Tripod	High in main stand, perpendicular to 10m platform.	Master shot in 10m platform.
1B	Hard	23x7	Tripod	Low in main stand, perpendicular to 3m springboards.	Master shot in 3m springboard.
1C	Hard	23x7	Tripod	Low in main stand, perpendicular to 1m springboards.	Master shot in 1m springboard.
2A	SSM	100x8,9	Tripod	High in main stand. Beside camera 1 A.	Tight shots in 10m platform. Replays.
2B	SSM	100x8,9	Tripod	Low in main stand. Beside camera 1 B.	Tight shots in 3m springboard. Replays.
2C	SSM	100x8,9	Tripod	Low in main stand. Beside camera 1 C.	Tight shots in 1m springboard. Replays.
3A	Hard	100x8,9	Tripod	High structure at the far end of venue. Head on to the 10m platform.	Head on shots of 10m platform.
3B	Hard	72x9,3	Tripod	Behind 1m springboards.	Tight shots. Reverse dives on 1m springboard.
4A	SSM	100x8,9	Tripod on 3m platform with wheels	Field of play. Head on to the 3m springboards.	Head on shots of 3m springboard. Replays.
4B	SSM	100x8,9	Tripod	Field of play. Head on to the 1m springboards.	Head on shots of 1m springboard. Replays.
5	Hard	60x9	Tripod	Field of play. South east corner of the diving pool.	Coaches, judges, general atmosphere at the diving pool.
6A	High Speed	100x8,9	Tripod	High in main stand, diagonally to the 10m platform.	Replays in 10m platform dives.
6B	High Speed	100x8,9	Tripod	Low in main stand, diagonally to the 3m springboards.	Replays in 3m springboard dives.
6C	High Speed	100x8,9	Tripod	Field of play, diagonally to the 1m springboards.	Replays in 1m springboard dives.
7	Handheld "Hot head"	11x4,7	Crane 8m	Field of play. North east corner of the diving pool.	Action isolation. Wide shots. Ceremonies.
8	Robotic minicam	TBC	Fixed	Behind 3m springboard 1.	Tight shots of 3m springboard (springboard 1).
9	Robotic minicam	TBC	Fixed	Behind 3m springboard 2.	Tight shots of 3m springboard (springboard 2).
10	Robotic minicam	TBC	Fixed	Behind 10m platform.	Tight shots of 10m platform.
11A	Handheld RF	11x4,7	Steady-cam	Field of play, roving behind diving platform.	Following athletes before/after dives.
11B	Handheld RF	11x4,7	Steady-cam	Field of play, roving behind 1m springboards.	Following athletes before/after dives. Ceremonies.
12A	Handheld RF	11x4,7	Man portable	Field of play, roving behind diving platform.	Following athletes before/after dives.
12B	Handheld RF	11x4,7	Man portable	Field of play, roving behind 1m springboards.	Following athletes before/after dives. Ceremonies.

## DIVING MULTILATERAL CAMERA NARRATIVE (2)

CAM	TYPE	LENS	MOUNT	LOCATION	COVERAGE
13A	Minicam waterproof	4mm	Man portable Polecam	Roving on field of play (3m springboards and 10m platform).	Pool entry and pool exit. Replays.
13B	Minicam waterproof	4mm	Man portable Polecam	Roving on field of play (1m springboards).	Pool entry, pool exit. Replays.
14A	Underwater robotic minicam		Small tripod	Bottom of pool. 3m springboards and 10m platform dives.	Underwater shots.
14B	Underwater robotic minicam		Small tripod	Bottom of pool. 1m springboards.	Underwater shots.
15	Handheld	17x7,6	Fixed or suspended rail	Overhead 10m platform.	Overhead isolation 10m platform dives.
16	Handheld	17x7,6	Fixed or suspended rail	Overhead 3m springboards.	Overhead isolation 3m springboard dives.
17	Dive-cam		Vertical trackcam	Mounted to north side of 10m platform.	Vertical tracking.
18	Handheld	11x4,7	Fixed	High in south west corner of venue.	Beauty shot.

## DIVING MULTILATERAL MICROPHONE LAYOUT



## DIVING MULTILATERAL MICROPHONE NARRATIVE

SOURCE	TYPE	COVERAGE
1	Mic. Surround	Array 5.1
2	Mic. Stereo	Natural sound Stereo
3	Mic. Cardioid	Natural sound Left
4	Mic. Cardioid	Natural sound Right
5	Hyper-cardioid	Mic. Camera 5. General atmosphere. Judges
6	Hyper-cardioid	Mic. Camera 7. General atmosphere at the diving pool.
7	Contact	Mic. Springboard 1m #1
8	Contact	Mic. Springboard 1m #2
9	Contact	Mic. Springboard 1m #3
10	Hyper-cardioid	Mic. Camera 8. Springboard 3m #1
11	Hyper-cardioid	Mic. Camera 9. Springboard 3m #2
12	Hyper-cardioid	Mic. Camera 10. 10m Platform
13	Hyper-cardioid	Mic. Camera 11. Steady-cam RF. Athletes before/after dives.
14	Hyper-cardioid	Mic. Camera 12. Handheld. Athletes before/after dives. Ceremonies
15 a-b	Mic. Cardioid	Mic. Camera 13. Polecam. Waterproof. Pool entry and pool exit
16 a-b	Hydrophone	Hydrophone Camera 14
17	Hyper-cardioid	Mic. Camera 17. Dive cam
18	Hyper-cardioid	Mic. Camera 18. Beautyspot. General atmosphere at the venue. Stereo
19	Tie-line	Anthems. Ceremonies. Public address. Stereo
20	Mic. Cardioid	Pre & Post Unilaterals.

## 8.5 High Diving

The Open Water Swimming and the High Diving competitions will take place in Moll de la Fusta, at the Barcelona Old Port.

**Production team:** TVE

**1 High Definition OB VAN**

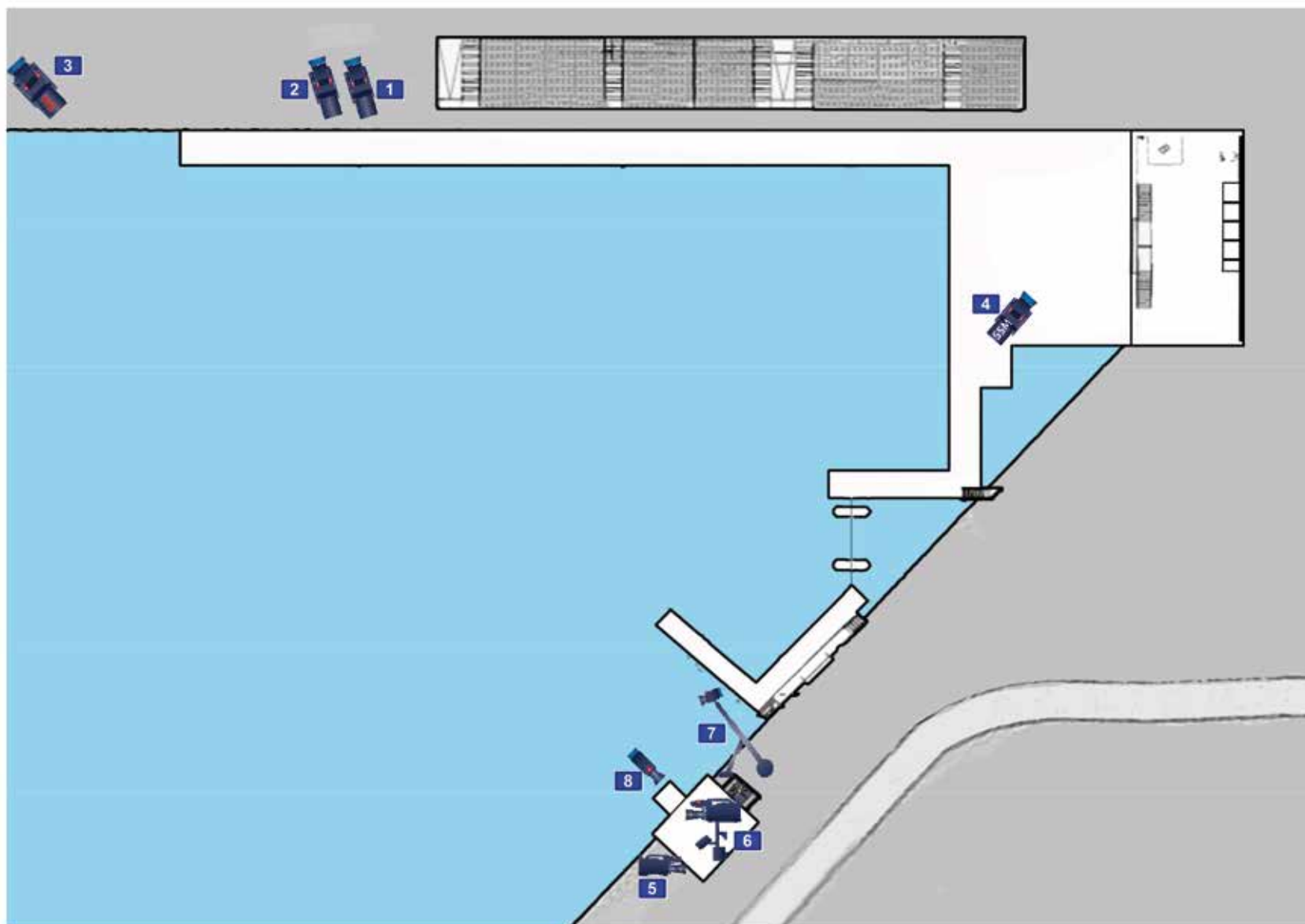
### HIGH DIVING Camera Summary

Hard	2	
Hard SSM	1	
Hard High Speed	1	
Hand held	2	
Hand held RF	1	1 with steady-cam
Crane robotic	1	12 meters
<b>Total</b>	<b>8</b>	

### HIGH DIVING Replays and Recording

EVS (6 Channels)	3
VTRs	3

## HIGH DIVING MULTILATERAL CAMERA LAYOUT

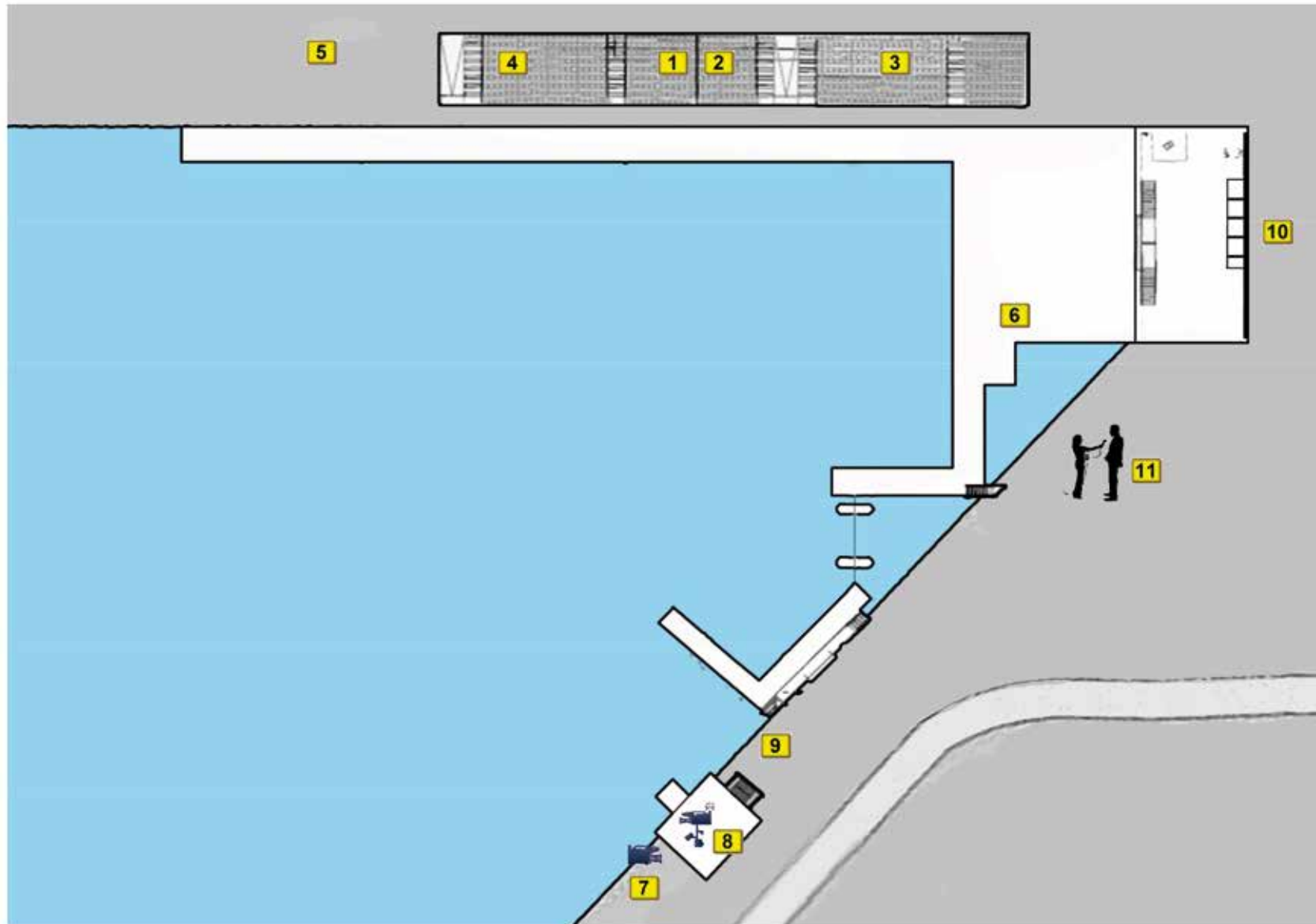




## HIGH DIVING MULTILATERAL CAMERA NARRATIVE

CAM	TYPE	LENS	MOUNT	LOCATION	COVERAGE
1	Hard	60x9	Tripod	On a high platform facing the diving tower.	Master shot.
2	Hard	72x9,3	Tripod	On a high platform facing the diving tower. Beside camera 1.	Tight shots. Preparation of athletes and dives.
3	High Speed	100x8,9	Tripod	On a 4m high platform at the quay facing the diving tower.	Extreme slow replays.
4	SSM	100x8,9	Tripod	On a 4m high platform at the quay lateral to the diving tower.	Tight shot of dives. Replays.
5	Handheld	17x7,6	Man portable	Roving at the quay next to the diving tower.	Divers coming out of the water. Judges platform. Divers at the base of the diving platform.
6	Handheld RF	11x4,7	Steady-cam	Top of diving tower. Roving at the diving platform.	Presentation of divers.
7	Handheld "Hot head"	11x4,7	Crane 12m	At the quay. Beside the diving tower.	Following action. Divers coming out of the water. General atmosphere.
8	Handheld	17x7,6	Fixed	Overhead of divers at the top of the diving tower.	Overhead shots. Zoom to the athletes diving into the water.

## HIGH DIVING MULTILATERAL MICROPHONE LAYOUT



## HIGH DIVING MULTILATERAL MICROPHONE NARRATIVE

SOURCE	TYPE	COVERAGE
1	Mic. Surround	Array 5.1
2	Mic. Stereo	Natural sound Stereo
3	Mic. Cardioid	Natural sound Left
4	Mic. Cardioid	Natural sound Right
5	Hyper-cardioid	Mic. Camera 1. Natural Sound
6	Hyper-cardioid	Mic. Camera 4. Natural Sound
7	Hyper-cardioid	Mic. Camera 5. Handheld. General atmosphere at the base of the diving tower. Athletes. Judges
8	Hyper-cardioid	Mic. Camera 6. Steady-cam. Introductions
9	Hyper-cardioid	Mic. Camera 7. Following action. Divers coming out of the water. General atmosphere. Stereo
10	Tie-line	Anthems. Ceremonies. Public address. Stereo
11	Mic. Cardioid	Pre & Post Unilaterals.

## 8.6 Waterpolo

Piscines Bernat Picornell will be the venue for Water Polo preliminary round, second round, quarterfinals and semifinals. LOC BCN2013 has proposed that finals (M & W) are played in Palau Sant Jordi.

The Water Polo International signal will be produced by Televisió de Catalunya (TV3).

**Production team:** TV3

**1 High Definition OB VAN**

### I. Preliminaries

#### WATER POLO Camera Summary

Hard	5	
Hard SSM	2	
Hand held	1	Beauty shot fixed
Mini robotic underwater	2	
<b>Total</b>	<b>10</b>	

#### WATER POLO Replays and Recording

EVS (6 Channels)	3
VTRs	3

### II. Second round, Quarterfinals and Semifinals

#### WATER POLO Camera Summary

Hard	8	
Hard SSM	2	
Hand held	2	1 fixed (Beauty shot)
Mini robotic underwater	2	
<b>Total</b>	<b>14</b>	

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### WATER POLO Replays and Recording

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<b>EVS (6 Channels)</b>	<b>4</b>
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<b>VTRs</b>	<b>3</b>
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### III. Finals (M & W)

The Water Polo finals in Palau Sant Jordi would be covered by the same team (Televisió de Catalunya) producing the rest of the competition but with the same OB Van covering Swimming and Synchronized Swimming (Televisión Española).

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### WATER POLO Camera Summary

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<b>Hard</b>	<b>5</b>	
<b>Hard SSM</b>	<b>3</b>	
<b>Hard High Speed</b>	<b>1</b>	
<b>Hand held</b>	<b>1</b>	Fixed (Beauty shot)
<b>Hand held SSM</b>	<b>1</b>	On rail
<b>Hand held RF</b>	<b>2</b>	With Steady-cam
<b>Hand held robotic</b>	<b>2</b>	1 on rail, 1 fixed
<b>Crane robotic</b>	<b>1</b>	8 meters
<b>Mini waterproof</b>	<b>2</b>	Polecam
<b>Mini robotic underwater</b>	<b>2</b>	
<b>Total</b>	<b>20</b>	

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### WATER POLO Replays and Recording

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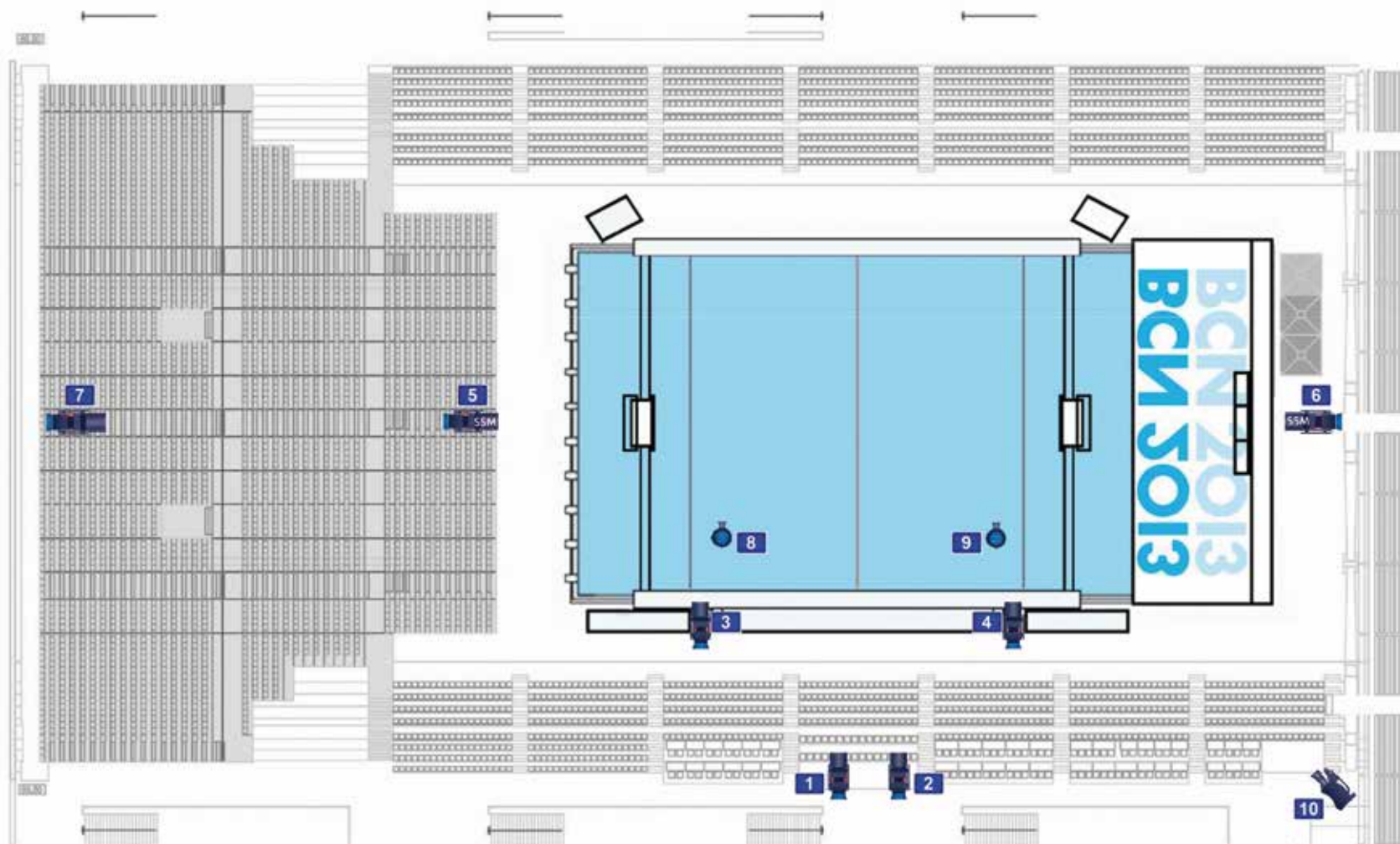
<b>EVS (6 Channels)</b>	<b>4</b>
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<b>VTRs</b>	<b>3</b>
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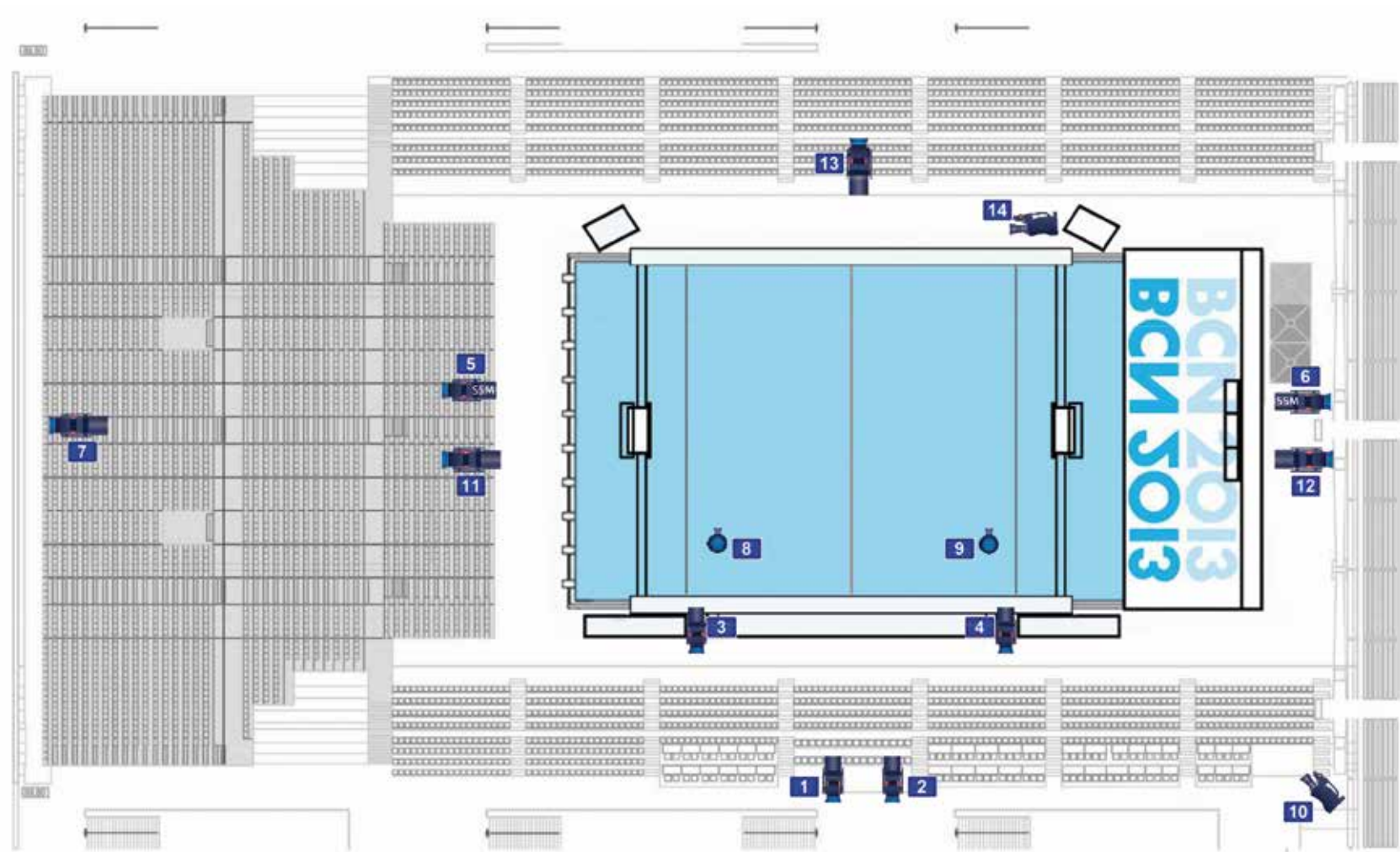
## WATER POLO MULTILATERAL CAMERA LAYOUT - BASIC COVERAGE (PRELIMINARIES)



## WATER POLO MULTILATERAL CAMERA NARRATIVE - BASIC COVERAGE (PRELIMINARIES)

CAM	TYPE	LENS	MOUNT	LOCATION	COVERAGE
1	Hard	23x7	Tripod	High centre. Above main stand.	Master shot.
2	Hard	72x9,3	Tripod	High centre. Beside camera 1.	Medium shots. Coaches. Benches.
3	Hard	40x10	Tripod	Field of play. Left side of the pool.	Tight action.
4	Hard	40x10	Tripod	Field of play. Right side of the pool.	Tight action.
5	SSM	40x10	Tripod	Low centre behind left goal.	Attacking play, left goal. Replays.
6	SSM	40x10	Tripod	Low centre behind right goal.	Attacking play, right goal. Replays.
7	Hard	72x9,3	Tripod	High centre behind left goal.	Wide shot, crowd, action.
8	Underwater robotic minicam		Small tripod	Mounted on pool floor, left side of pool.	Underwater isolation.
9	Underwater robotic minicam		Small tripod	Mounted on pool floor, right side of pool.	Underwater isolation.
10	Handheld	11x4,7	Fixed	In upper right corner of main stand.	Beauty shot.

## WATER POLO MULTILATERAL CAMERA LAYOUT - 2ND. ROUND, QUARTER FINALS AND SEMIFINALS

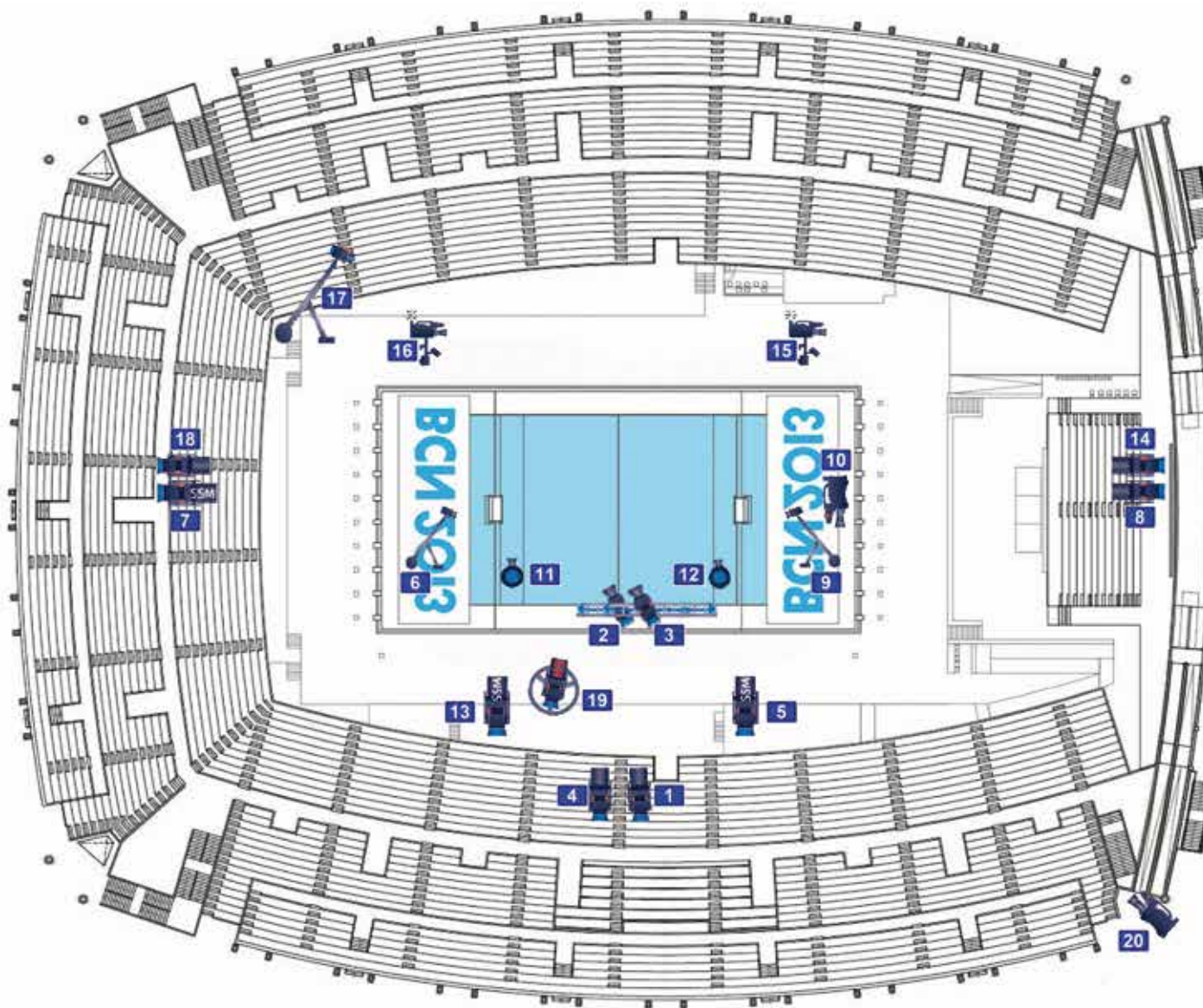




## WATER POLO MULTILATERAL CAMERA NARRATIVE - 2ND. ROUND, QUARTER FINALS AND SEMIFINALS

CAM	TYPE	LENS	MOUNT	LOCATION	COVERAGE
1	Hard	23x7	Tripod	High centre. Above main stand.	Master shot.
2	Hard	72x9,3	Tripod	High centre. Beside camera 1.	Medium shots. Coaches. Benches.
3	Hard	40x10	Tripod	Field of play. Left side of the pool.	Tight action.
4	Hard	40x10	Tripod	Field of play. Right side of the pool.	Tight action.
5	SSM	40x10	Tripod	Low centre behind left goal.	Attacking play, left goal. Replays.
6	SSM	40x10	Tripod	Low centre behind right goal.	Attacking play, right goal. Replays.
7	Hard	72x9,3	Tripod	High centre behind left goal.	Wide shot, crowd, action.
8	Underwater robotic minicam		Small tripod	Mounted on pool floor, left side of pool.	Underwater isolation.
9	Underwater robotic minicam		Small tripod	Mounted on pool floor, right side of pool.	Underwater isolation.
10	Handheld	11x4,7	Fixed	In upper right corner of main stand.	Beauty shot.
11	Hard	40x10	Tripod	Low centre behind left goal. Beside camera 5.	Defensive play, goalkeeper left goal.
12	Hard	40x10	Tripod	Low centre behind right goal. Beside camera 6.	Defensive play, goalkeeper right goal.
13	Hard	40x10	Tripod	Mid centre in opposite stand.	Reverse angle.
14	Handheld	11x4,7	Man portable	Roving close to the benches.	Benches, coaches, spectators.

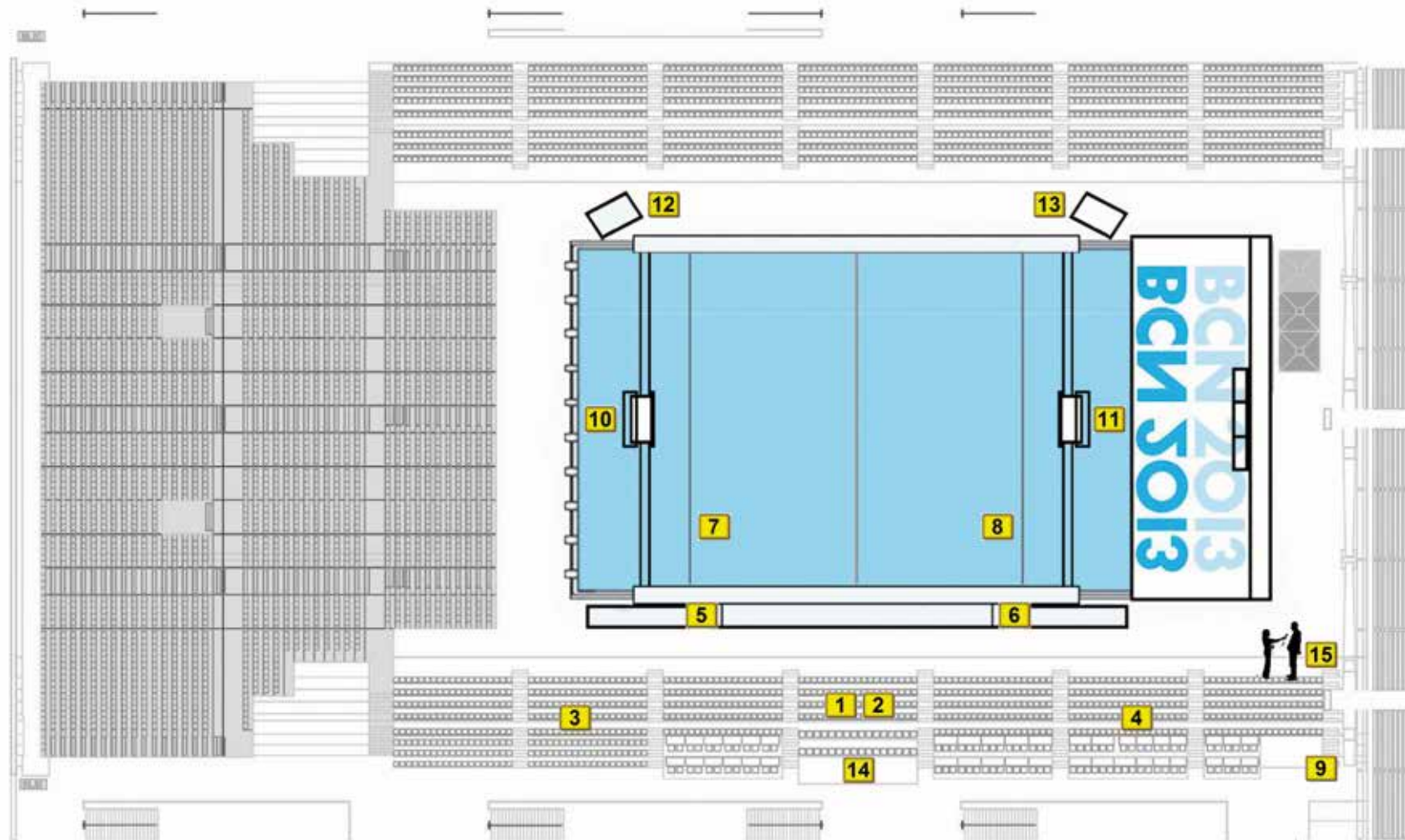
## WATER POLO MULTILATERAL CAMERA LAYOUT - FINALS (M & W)



## WATER POLO MULTILATERAL CAMERA NARRATIVE - FINALS (M & W)

CAM	TYPE	LENS	MOUNT	LOCATION	COVERAGE
1	Hard	23x7	Tripod	High centre. Main stand.	Master shot.
2	Handheld robotic	17x7,6	On 40m long rail	Track on the near edge of pool.	Low angle tracking action wide.
3	HH SSM robotic	40x10	On 40m long rail	Track on the near edge of pool.	Low angle tracking action tight.
4	Hard	72x9,3	Tripod	High centre. Beside camera 1.	Medium shots. Coaches. Benches.
5	Hard SSM	100x8,9	Tripod	Field of play. Right side of the pool.	Tight action.
6	Minicam waterproof	4mm	Man portable Polecam	Field of play. Behind left goal.	Left goal. Replays.
7	Hard SSM	100x8,9	Tripod	Low centre behind left goal.	Attacking play, left goal. Replays.
8	Hard	72x9,3	Tripod	High in South stand.	Attacking play, right goal. Replays.
9	Minicam waterproof	4mm	Man portable Polecam	Field of play. Behind right goal.	Right goal. Replays.
10	Handheld robotic	17x7,6	Fixed	Right side above swimming pool.	Overhead shots. Replays.
11	Underwater robotic minicam		Small tripod	Mounted on pool floor, left side of pool.	Underwater isolation.
12	Underwater robotic minicam		Small tripod	Mounted on pool floor, right side of pool.	Underwater isolation.
13	Hard SSM	100x8,9	Tripod	Field of play. Left side of the pool.	Tight action.
14	Hard	72x9,3	Tripod	High in South stand.	Defensive play, goalkeeper right goal.
15	Handheld RF	11X4,7	Steady-cam	Roving close to the right benches.	Benches, coaches, spectators.
16	Handheld RF	11X4,7	Steady-cam	Roving close to the left benches.	Benches, coaches, spectators.
17	Handheld "Hot-head"	11X4,7	Crane 8m	Field of play, northeast corner of the swimming pool.	Crowd atmosphere. General shots.
18	Hard	72x9,3	Tripod	High in North stand.	Defensive play, goalkeeper left goal.
19	High Speed	100x8,9	Low platform	Field of Play. Close to the swimming pool.	Extreme slow replays of competition.
20	Handheld	11X4,7	Fixed	In upper right corner of main stand.	Beauty shot.

## WATER POLO MULTILATERAL MICROPHONE LAYOUT PRELIMINARIES, SECOND ROUND, QUARTER FINALS AND SEMIFINALS

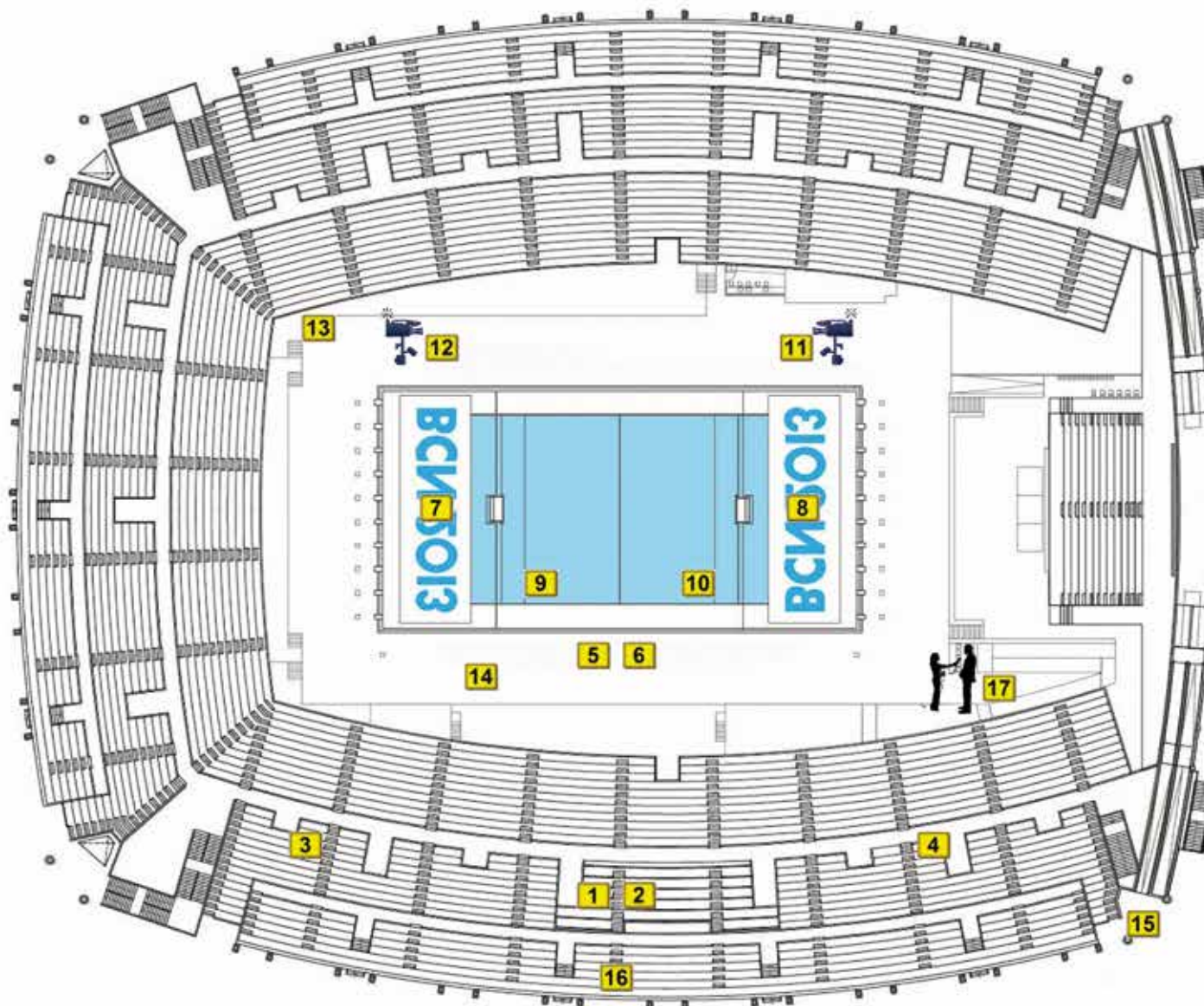


## WATER POLO MULTILATERAL MICROPHONE NARRATIVE PRELIMINARIES, SECOND ROUND, QUARTER FINALS AND SEMIFINALS

SOURCE	TYPE	COVERAGE
1	Mic. Surround	Array 5.1
2	Mic. Stereo	Natural sound Stereo
3	Mic. Cardioid	Natural sound Left
4	Mic. Cardioid	Natural sound Right
5	Hyper-cardioid	Mic. Camera 3. Action at the swimming pool
6	Hyper-cardioid	Mic. Camera 4. Action at the swimming pool
7	Hydrophone	Hydrophone Camera 8
8	Hydrophone	Hydrophone Camera 9
9	Hyper-cardioid	Mic. Camera 10 Beautyshot. General atmosphere at the venue. Stereo
10	Hyper-cardioid	Action at the pool from behind left goal
11	Hyper-cardioid	Action at the pool from behind right goal
12	Hyper-cardioid	Action at the pool. Benches and coaches
13	Hyper-cardioid	Action at the pool. Benches and coaches
14	Tie-line	Anthems. Ceremonies. Public address. Stereo
15	Mic. Cardioid	Pre & Post Unilaterals.



## WATER POLO MULTILATERAL MICROPHONE LAYOUT - FINALS (M & W)



## WATER POLO MULTILATERAL MICROPHONE NARRATIVE - FINALS (M & W)

SOURCE	TYPE	COVERAGE
1	Mic. Surround	Array 5.1
2	Mic. Stereo	Natural sound Stereo
3	Mic. Cardioid	Natural sound Left
4	Mic. Cardioid	Natural sound Right
5	Hyper-cardioid	Mic. Camera 2. Action at the swimming pool
6	Hyper-cardioid	Mic. Camera 3. Action at the swimming pool
7	Hyper-cardioid	Camera 6 (Polecam waterproof)
8	Hyper-cardioid	Camera 9 (Polecam waterproof)
9	Hydrophone	Camera 11 (Underwater)
10	Hydrophone	Camera 12 (Underwater)
11	Hyper-cardioid	Action at the pool. Benches and coaches
12	Hyper-cardioid	Action at the pool. Benches and coaches
13	Hyper-cardioid	Mic. Camera 17. Crane. Crowd atmosphere. Stereo
14	Hyper-cardioid	Mic. Camera 13 Tight action at the pool
15	Hyper-cardioid	Mic. Camera 20 (Beauty shot). Stereo. Atmosphere at the pool
16	Tie-line	Anthems. Ceremonies. Public address. Stereo
17	Mic. Cardioid	Pre & Post Unilaterals.

# BCN 2013 BCN 2013

## BARCELONA 2013 15<sup>th</sup> FINA WORLD CHAMPIONSHIPS

15<sup>os</sup> FINA CAMPEONATOS  
DEL MUNDO DE NATACIÓN

15<sup>es</sup> FINA CAMPIONATS  
DEL MON DE NATACIÓ

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## 9. ENGINEERING & TECHNICAL OPERATIONS

rtve







WORLD BROADCASTERS MEETING / **TV HANDBOOK**

## 9. ENGINEERING & TECHNICAL OPERATIONS

### 9.1. International Feeds Technical Specifications

#### Video

The Host Broadcaster will produce all live coverage in High Definition and following 50Hz specifications. The HDTV signal standard will be 1485Mbps 1080i/50 SMPTE-292M, with up to eight embedded audio channels.

#### Audio

The International Sound will be 5.1 surround sound for television and stereo for radio.

#### HD Vanda Package

The Host Broadcaster will produce all live coverage in High Definition and following 50Hz specifications. The HDTV signal standard will be 1485 Mbps 1080i/50 SMPTE-292M, with up to eight embedded audio channels. The International Sound will be 5.1 surround sound for television and stereo for radio.

The HD Vanda package (16:9 HD-SDI with embedded audio) will be made available to all RHBS at the IBC MCR.

The package consists of:

- 4 competition feeds in HDTV (1920H/1080V):
  - Synchronised Swimming / Swimming (sport feed #1)
  - Water Polo (sport feed #2)
  - Diving (sport feed #3)
  - Open Water Swimming / High Diving (sport feed #4)

There will be eight embedded audio channels (resolution of 24 bits and 48 kHz of sampling rate) per feed:

- Channel 1 and 2 down mix Stereo Left and Right
- From channel 3 to channel 8 IS-TV 5.1 Surround Sound (L,R,C,Lfe,Ls,Rs)
- 1 AES (or one analogue pair) with the English Commentary Guide and TVIS Mono per feed (4xAES or 4xAnalog pair)
- 1 Spare
- 1 Analogue Black Burst
- 1 Time Code

## **SD Vanda Package**

The same Vanda Package can also be made available in SD to RHBS at the IBC MCR upon specific request.

The package consists of:

- 4 competition feeds in SD (720H/567V):
  - Synchronised Swimming / Swimming (sport feed #1)
  - Water Polo (sport feed #2)
  - Diving (sport feed #3)
  - Open Water Swimming / High Diving (sport feed #4)

There will be four embedded audio channels (resolution of 24 bits and 48 kHz of sampling rate) per feed:

- Channel 1 and 2 IS-TV Left and Right
- Channel 3 – English Commentary Guide
- Channel 4 – TVIS Mono
- 1 Spare
- 1 Analogue Black Burst
- 1 Time Code

## **Time Code**

The HB will generate and distribute EBU format time code. The time code signal will be locked to the HB reference system and generated from a GPS locked source. Reference time will be GMT.

## **Radio International Sound Package**

The Radio International Sound Package will be available to all RHBS at the IBC MCR. It will consist of:

MADI (AES10-64 channels), or analogue pairs upon request, transporting 4 audio channel sets per competition / feed with the following distribution:

- Channel 1 and 2 is IS-RA Left and Right (sport feed #1)
- Channel 3 – English Commentary Guide (sport feed #1)
- Channel 4 – Radio International Sound mono (sport feed #1)
- Channel 5 – 8 (sport feed #2)
- Channel 9 – 12 (sport feed #3)
- Channel 13 – 16 (sport feed #4)
- Channel 17 – 64 silence

## VTR Format

VTR format is XDCAM HD. Other available formats, upon request by RHBs, are HDCAM, IMX and P2.

## 9.2. Power

The power standard in Spain is 230/400V 50HZ 3ph+neutral+ground. Limitation in single phase supply (1 ph+neutral) is 230V / 4 KW maximum / 20 Amp.

LOC BCN 2013 is responsible to provide reliable power for all the critical broadcast loads and utility loads within IBC, broadcast compounds and venue unilateral areas.

The grid power supply will come from each venue local power source with different back-up generators. The power will be split in two different distribution circuits (technical power and domestic power), and distributed to RHBs' booked positions. The technical and domestic powers are outlined as following:

### Technical Power

For all broadcast technical equipment loads. Should there be a grid power failure, back-up generators will be switched on manually. The HB Venue Technical Manager will coordinate with RHBs on site to avoid switching interval damage before change over.

### Domestic Power

For utility usage, i.e. air-conditioning, lighting, catering, PC, etc., coming from grid power and separate from the technical power.

## 9.3. The Broadcasters Domain at Palau Sant Jordi

The Broadcasters domain at Palau Sant Jordi is composed of the International Broadcasting Centre (IBC), the International TV Compound, the Satellite Farm and the Host Broadcaster Compound.

### International Broadcast Centre (IBC)

The IBC will be located in the Annex Hall of the Palau Sant Jordi. The area has a total surface of 3000 m<sup>2</sup> in the following shape: 94m long x 32m width x 14m

height. In addition to the HB technical and operational areas, the IBC will host the different RHBs dedicated unilateral spaces. Some common services, such as Information Desk, Transportation desk, Medical Services, Catering, etc., will be shared with the adjoining Main Press Centre.

The IBC will host the Main Control Room (MCR). The MCR will be the heart of technical operations in the IBC. All the multilateral Vanda signals will be controlled and distributed from here.

HB will install two Technical Distribution Centres (TDCs) close to the different areas of the International TV Compound for the RHBs to access all requested feeds, including those coming from the MCR.

The Telecommunications Equipment Room (TER) will be located close to the HB IBC premises. The TER will be the termination point for all telecommunication services in the IBC. It will be the responsibility of LOC BCN2013.

### **Bookable services at the IBC**

The HB will provide services at the IBC, such as off-tube, tape play-out and recording, bookable during the Championships on a time-slot basis. Please refer to the Rate Card for more information on bookable services at the IBC.

### **International TV Compound**

The International TV Compound at the Palau Sant Jordi will be divided in two different areas:

- TV Compound A1, located south to the Palau Sant Jordi, in an area of 965 m2.
- TV Compound A2, located east to the Palau Sant Jordi, in an area of 380 m2.

RHBs will be allocated at the International TV Compound the necessary space to park their OB Vans, tender vehicles, support and edit vans. There will be one Technical Distribution Centre (TDC) at each area of the compound for the RHBs to access the HB feeds.

RHBs will be assigned TV Compound A1 or A2 depending on their technical needs and the location of their unilateral areas at the Palau Sant Jordi competition venue.

In case it proves necessary, a third area in the vicinity of Palau Sant Jordi can be used as International TV Compound. It would be TV Compound A3, located further east to the Palau Sant Jordi, in an area of 2.310 m2.

### **Satellite Farm**

Close to the Annex Hall and along the west-south side of the Palau Sant Jordi, there is a dedicated parking space that will allocate the Satellite Farm. Dedicated and secured space for SNG vehicles will be available here for RHBs that so demand.

TV Compound A3 can also accommodate SNG vehicles if need be.

### Host Broadcaster Compound

The HB Compound for the Palau Sant Jordi, where the Swimming competitions, the Synchronized Swimming competitions and the Water Polo finals will take place, will be located west of the complex, in an area of approximately 385 m2.

### Cabling at The Broadcasters Domain

Cabling within the IBC, including tielines from/to the MCR to/from the RHBs dedicated areas, is the sole responsibility of the Host Broadcaster. HB will also install the necessary cabling from the MCR to the TDCs.

Unilateral VandAs and/or audio tielines to/from the commentary positions area will also be run and managed by the HB and delivered to RHBs through the Technical Distribution Centres (TDCs).

RHBs are responsible for cabling from their dedicated areas within the venue to their OB Vans and SNGs, always under the HB supervision and following the demarcation points and appropriate cabling paths.

RHBs are thus responsible for cabling:

- From/to the International TV Compound to/from their dedicated unilateral areas at the Palau Sant Jordi competition venue (except from/to the commentary positions)
- From/to the International TV Compound to/from the assigned TDC
- From/to the International TV Compound to/from the RHB's own SNG (when this is the case)

The HB will design and cooperate closely with LOC BCN2013 to install secured, undisturbed, easy access and the shortest possible cable pathways for RHBs.

Cabling path drawings will follow in due course.

## 9.4. Host Broadcaster Compounds at other venues

There will be secondary HB Compounds at Piscines Bernat Picornell (Water Polo), Piscina Municipal de Montjuïc (Diving) and Moll de la Fusta (Open Water Swimming and High Diving) venues.

Limited room could be made available to RHBs in case there is demand for Unilateral parking space in those venues. Requests for such space in the secondary HB Compounds should be addressed to the HB and would be studied on a case-by-case basis.

HB will establish a Technical Operations Centre (TOC) in each venue compound.

TOCs will act as technical check points in the venue, controlling and monitoring all multilateral Vanda signals produced at the venue before transmitting them to the IBC MCR.

## **9.5. Venue Unilateral Facilities**

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### **Commentary Positions**

LOC BCN2013 will construct the necessary number of commentary positions at each competition venue. The HB and the LOC BCN2013 will do their best to ensure that the commentary position area at all venues will provide the best possible viewing position for the commentators. The Commentary Position area will be located on the same side of the competition venue as the HB main cameras.

Fully and Partially Equipped Commentary Position will accommodate a maximum of three people. Radio Reporting Positions will seat a maximum of two persons.

Commentary Positions will be allocated to the RHBS on a permanent basis for the duration of each discipline of the Championships programme.

The commentary positions drawings can be found at the end of this section.

### **Commentary Control Room (CCR)**

Commentary Control Rooms (CCR) will be installed at all competition venues. The CCRs will be located in close proximity to the commentary positions. All commentary units, CATV monitors and the associated IS-RA, commentary and coordination circuits will be installed, operated and maintained by the CCR personnel.

### **Other Venue Unilateral Facilities**

Besides the commentary positions, the HB will provide other unilateral services and facilities at the venues, including Unilateral/ENG platforms, Mixed Zone, TV Studio (only in Palau Sant Jordi), Announce Position and Portacabins. Please refer to the Rate Card for more information.

### **Bookable Services at the Venues**

The HB will also provide other bookable unilateral services at the venues, including Pre & Post Unilaterals and Mixed Zone time slots. Please refer to the Rate Card for more information on bookable services at the venues.

## 9.6. Broadcast Transmission

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All multilateral circuits between venues and the IBC will be configured with back-up and ring redundancy, with the exception of Moll de la Fusta venue where, as of today, the ring redundancy solution is still on progress. Unilateral circuits will be offered as single point-to-point links that will be continuously monitored by the HB for reliable operation in both the TOCs and the IBC MCR.

The MCR will be the international gateway for broadcasting. All the signals from venues will be monitored and controlled for quality assurance in the contribution area. Then, multilateral and unilateral Vanda circuits will be processed and dispatched to the RHBs via the Technical Distribution Centers (TDCs).

The HB will assist RHBs in sending radio and television signals to their home countries through the EBU, main supplier for the international broadcast services, from their gateway at the IBC or through the official telecom provider (which is still under negotiation) and the LOC. When RHBs choose to transmit the signals by satellite, the bookings must be made through the HB Booking office. For international transmission via fiber, RHBs can contact the official Telecom provider while keeping the HB informed, so that the HB may assist coordinating with the official Telecom provider.

## 9.7. Radio Frequency

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Broadcasters planning to use radio frequency equipment in Barcelona during the 15th FINA World Championships must apply for and obtain a license for the specific equipment to be used within the authorized radio frequency spectrum. The Spanish Ministerio de Industria, Energía y Turismo is responsible for the allocation of licenses and managing access to the radio frequency spectrum.

Broadcasters are requested to submit to the LOC TV Coordinator their applications using only the valid forms issued specifically for the event and approved by the Ministerio de Industria, Energía y Turismo.

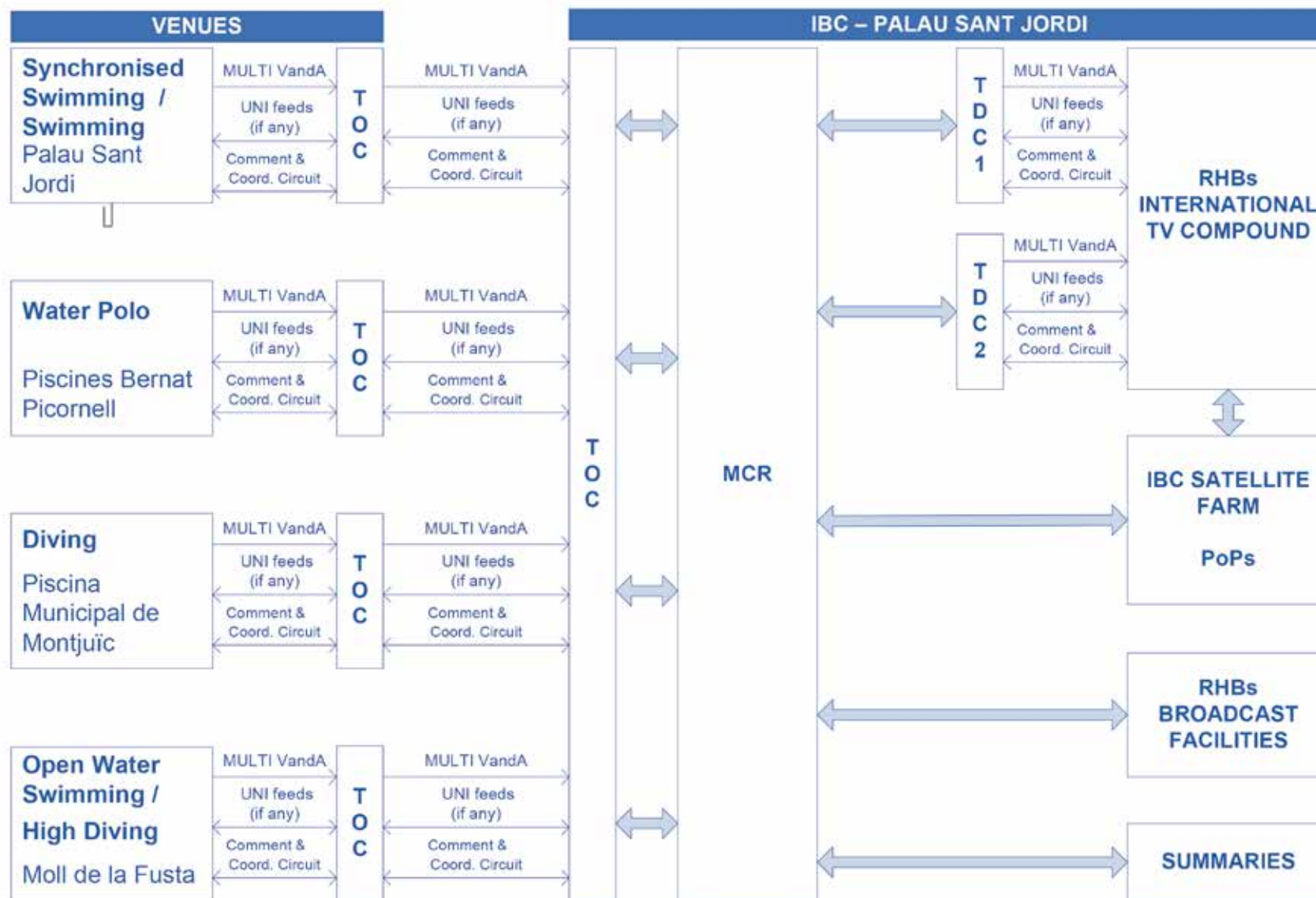
Broadcasters allowed to use radio frequency equipment will be invoiced directly by the LOC BCN2013 for every assigned channel once the process has been finalized.

The official RF Application Form, the procedure, taxes and deadline for submission will be announced and distributed in due course.

Should you have any questions in the meantime, please address them to the LOC TV Coordinator or the HB Project Coordinator indicated at the end of the Ratecard.




## GENERAL SIGNAL FLOW DIAGRAM

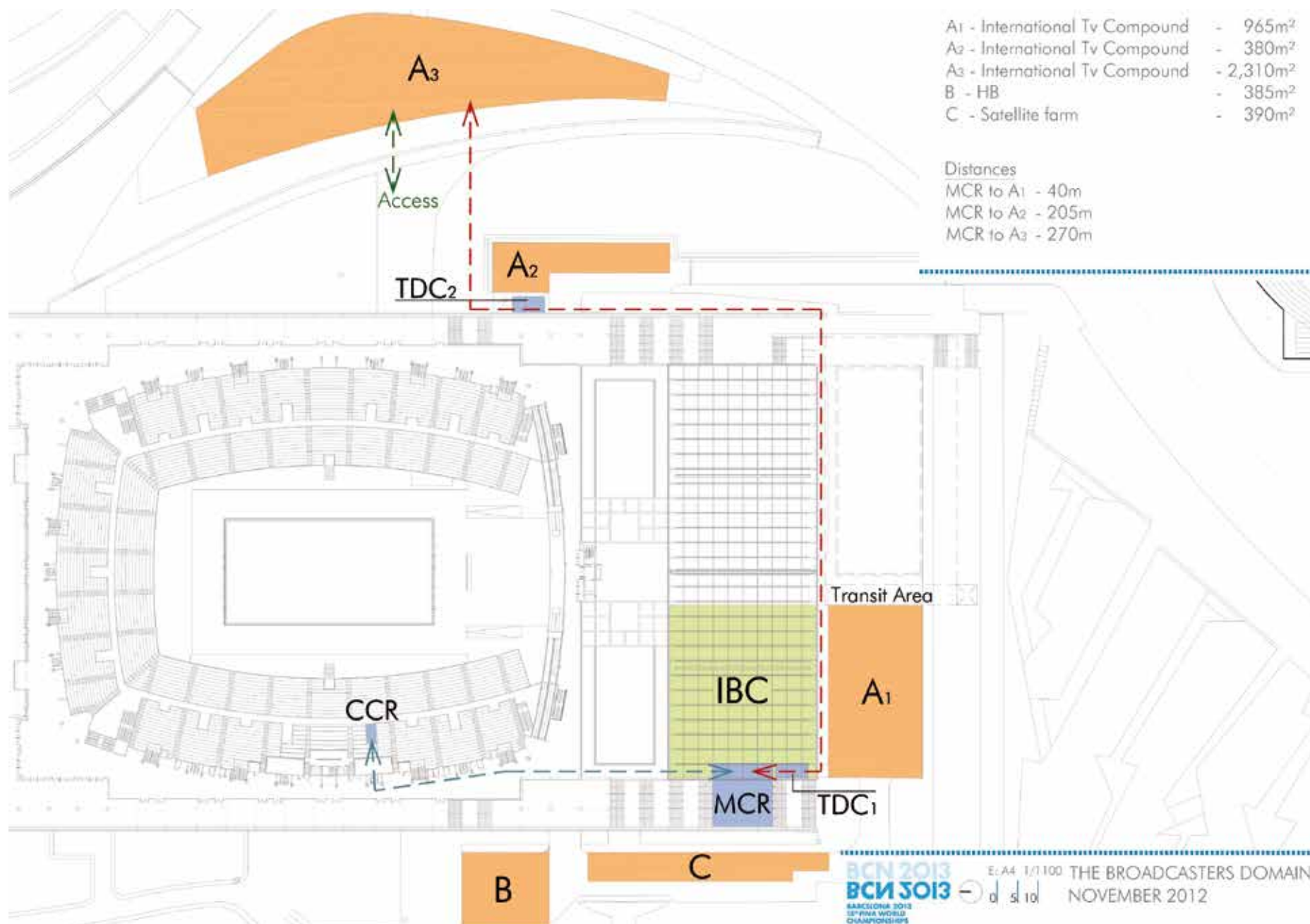


## Summary of the Key Technical Parameters

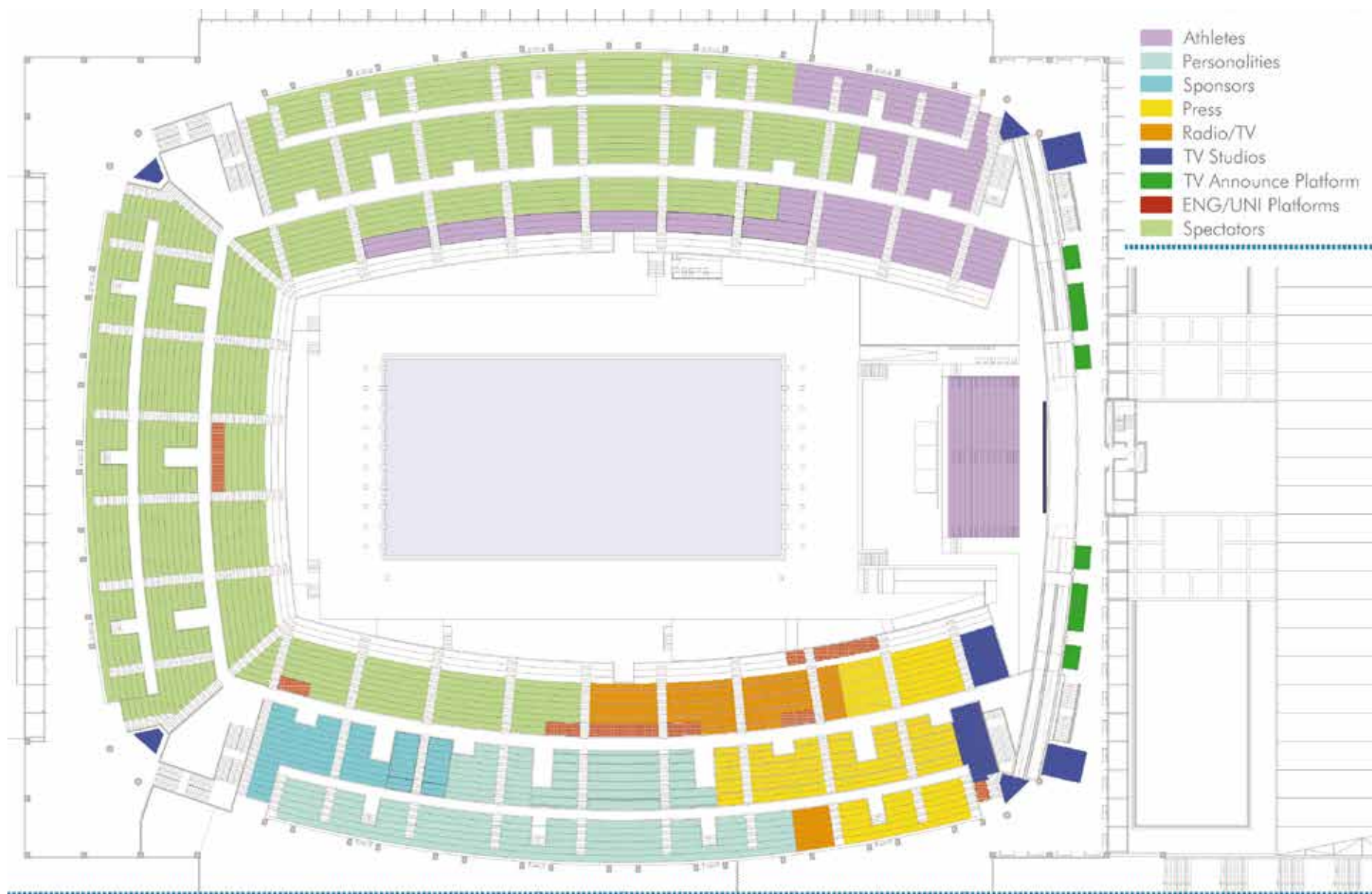
Format of the International TV Signal and the International Radio Signal								
		Format	Resolution	Field Rate	Components Sampling Rate	Bit Rate	Signal Level Info	Relevant Standards
International TV Signal High Definition	Video	HDTV	1920H/1080V	50 Hz interlaced	Y= 74.25 MHz Cr=Cb=Y/2	1.485 Gbps	800 mV ± 10%	SMPTE 292M
	Audio	8 Embebbed Channels in the following order: (IS-TV (L/R) IS- Surround (L,R,C,LFE,S <sub>L</sub> ,S <sub>R</sub> ))	24 Bits	N/A	48 kHz	N/A (Audio is embedded in video)	-18dBfs	Embedding Standard: SMPTE 299M
Interational Radio Signal	Audio	Digital or Analog	24 Bits	N/A	48 kHz	N/A	-18 dBfs in Digital or +4 dBu in Analog	AE10 (MADI) or Analog Audio

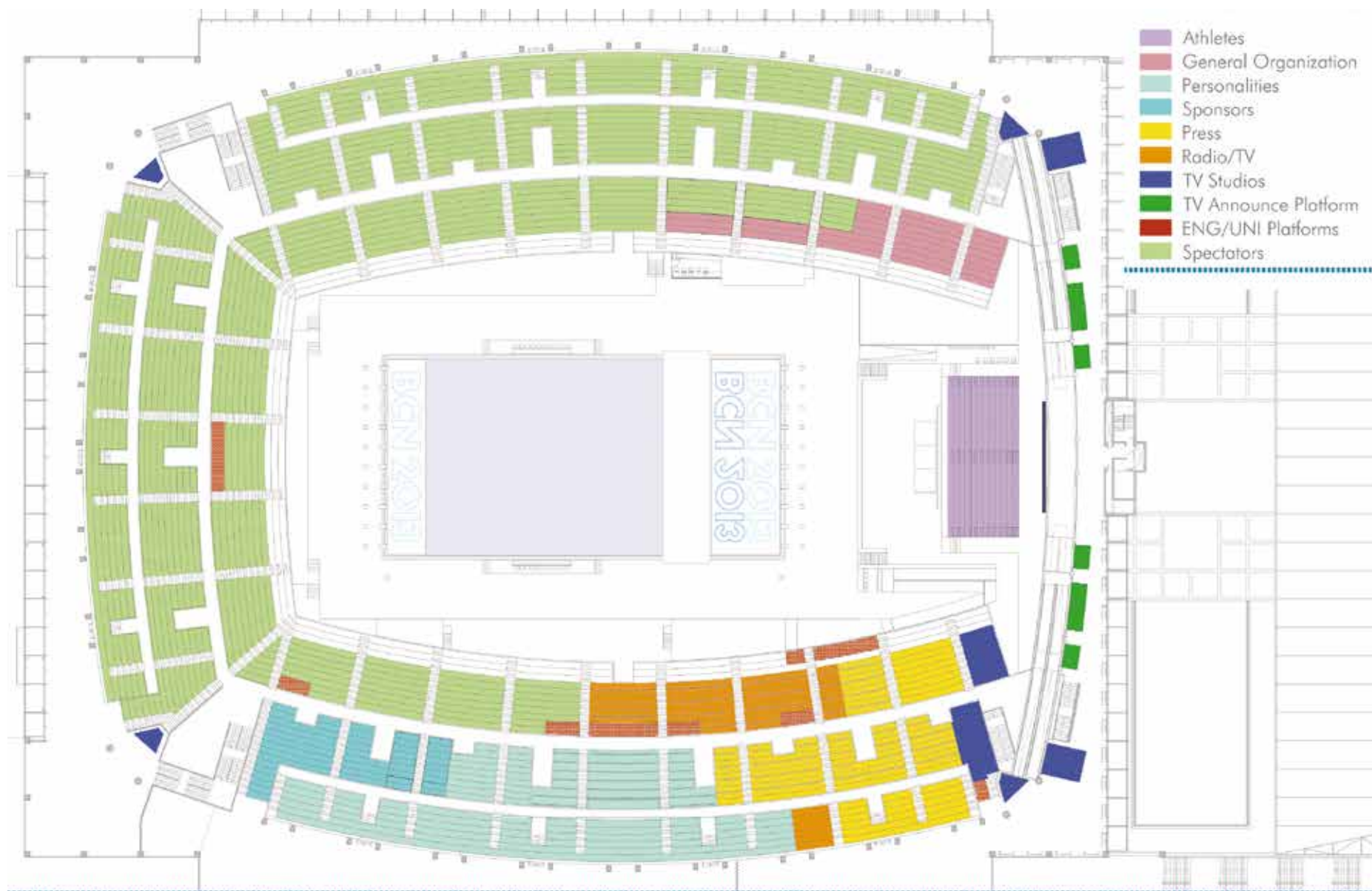
## Other Important Technical Parameters

Format of the International TV Signal and the International Radio Signal		
Parameter	Description	
Distributed Time Code	EBU Format, Time-of-Day, Locked to GPS or NTP, Reference: UTC+0	
VTR Standard	Sony XDCAM HD	
Power Standard	European Normalised standard EN 50160: Single Phase 220v / 50Hz; Three Phase 400v/50Hz	
Power Connectors	Loads lower or equal to 16 amps: "Schuko" plug (CEE 7/4)	
	Loads higher than 16 amps: EN 60309-2 or other code equipment	
	"Schuko" plug (CEE 7/4) 	EN 60309-2 (single & three phase) 

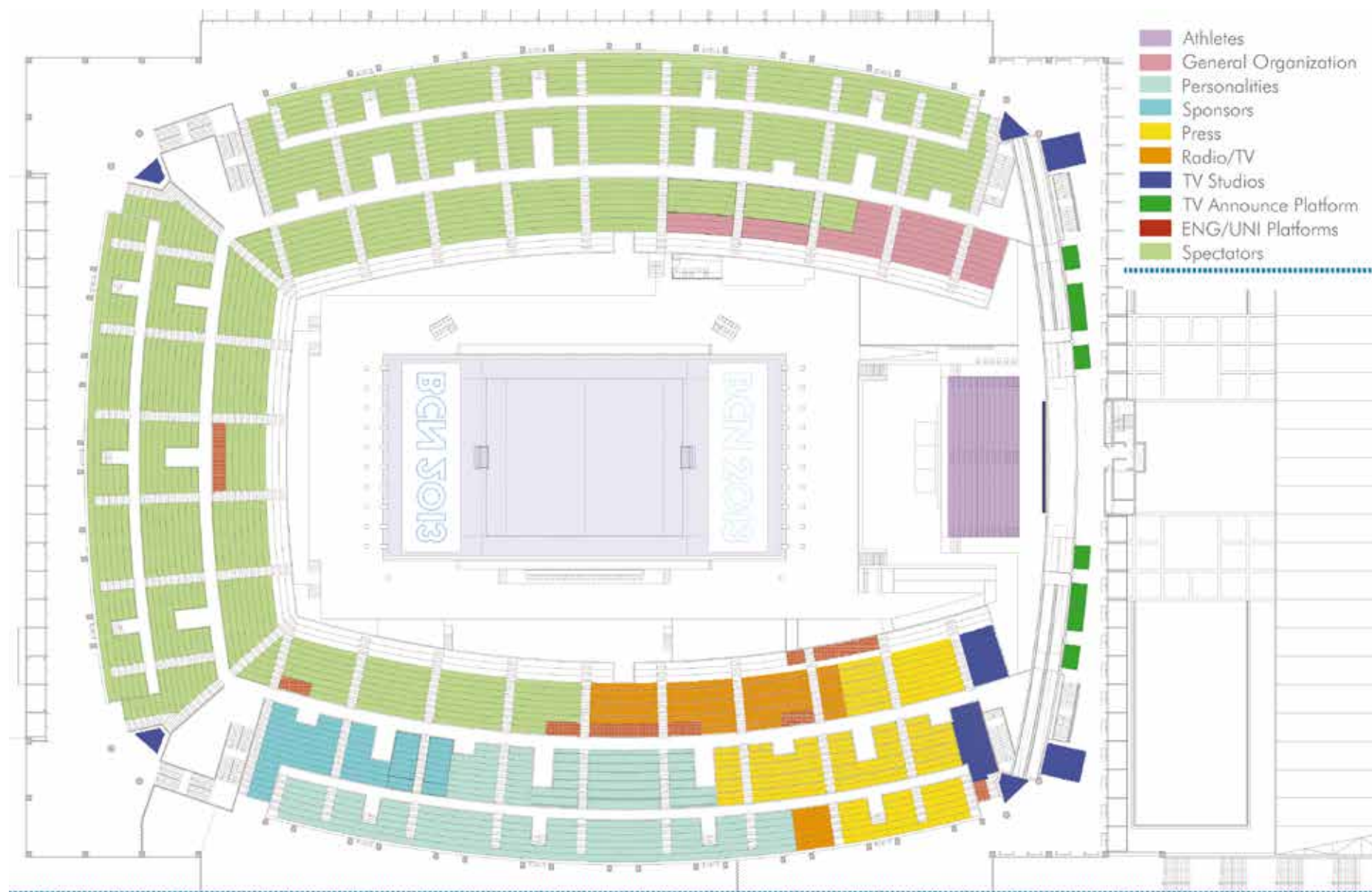


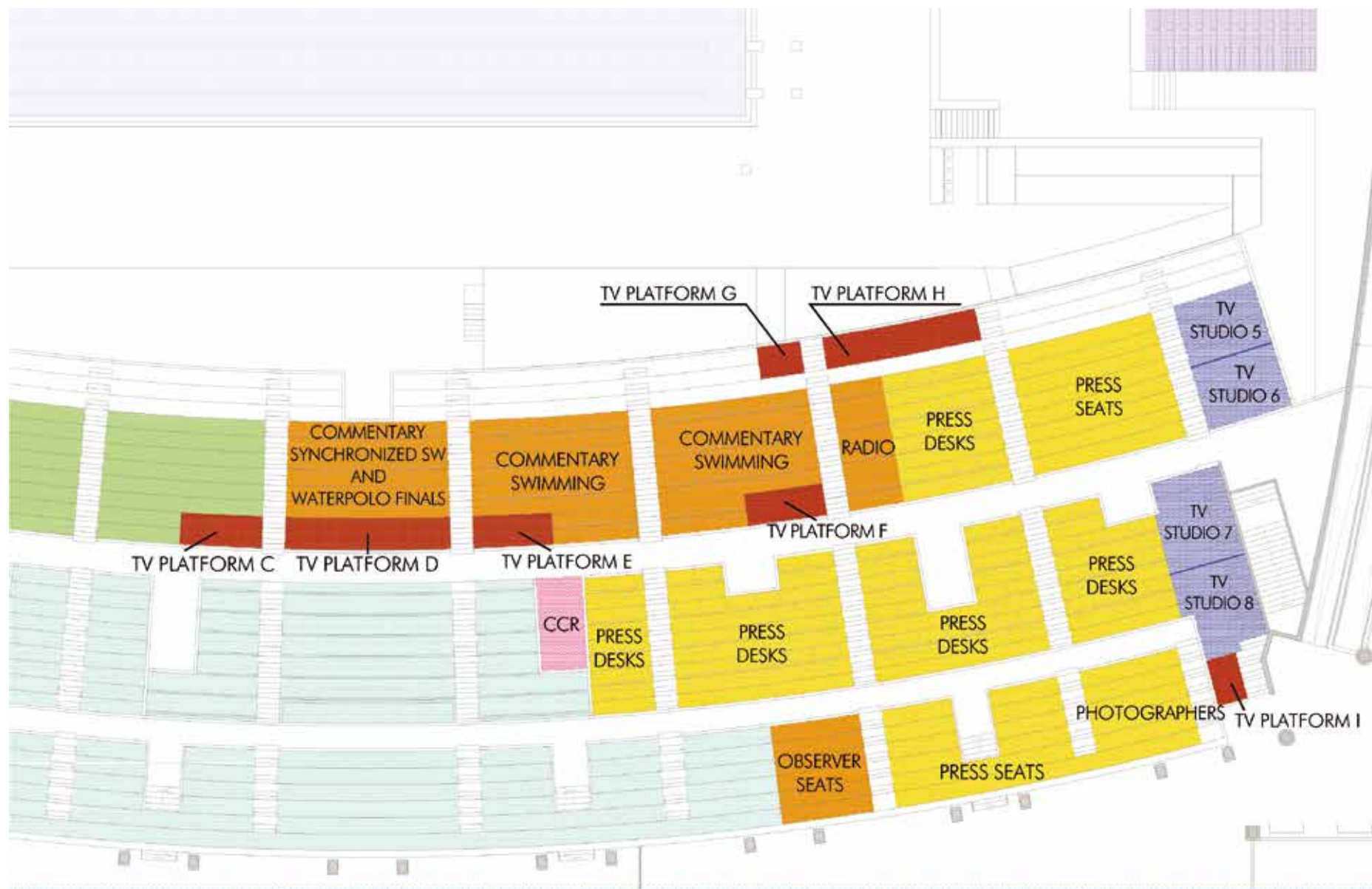


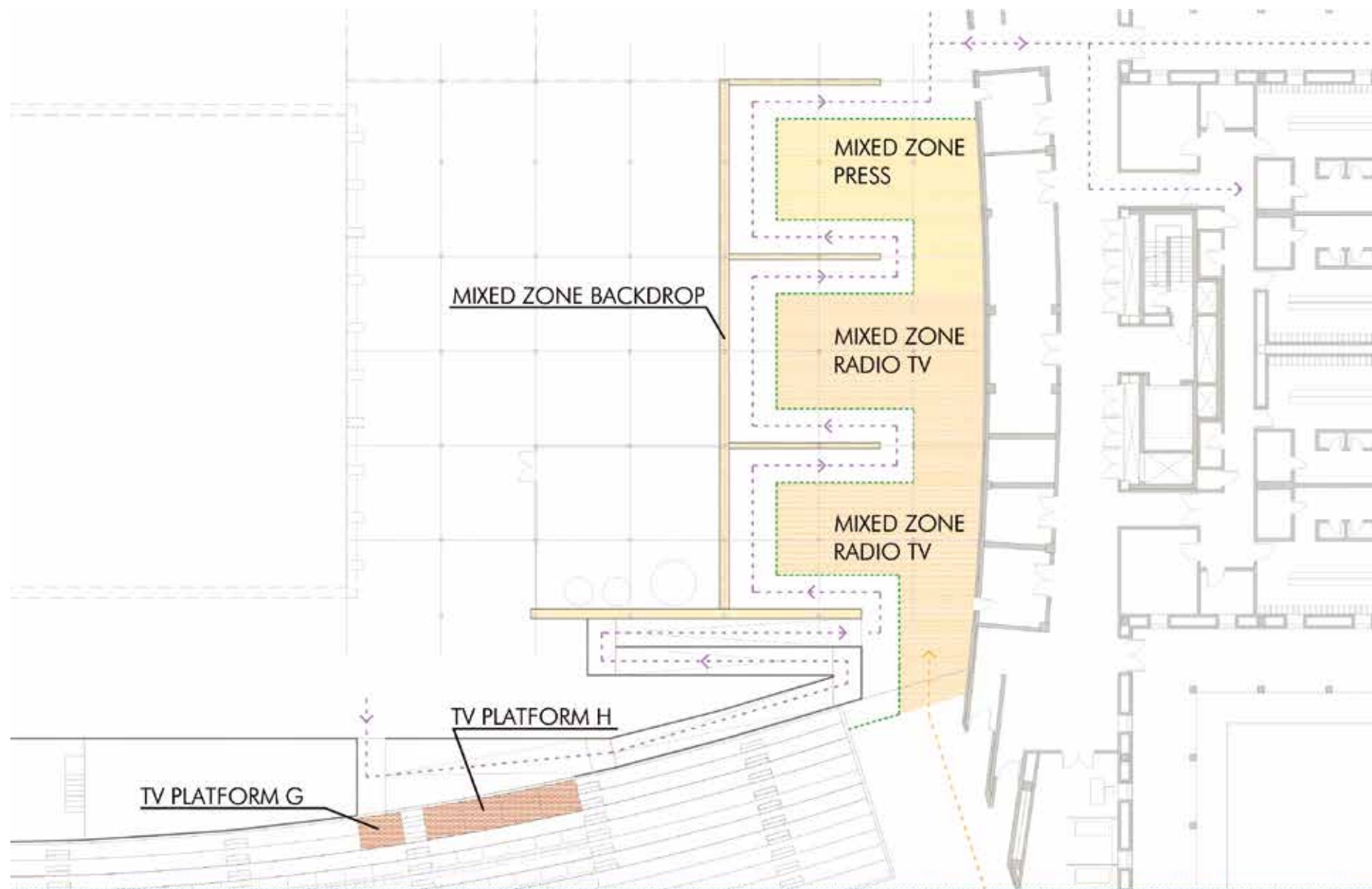




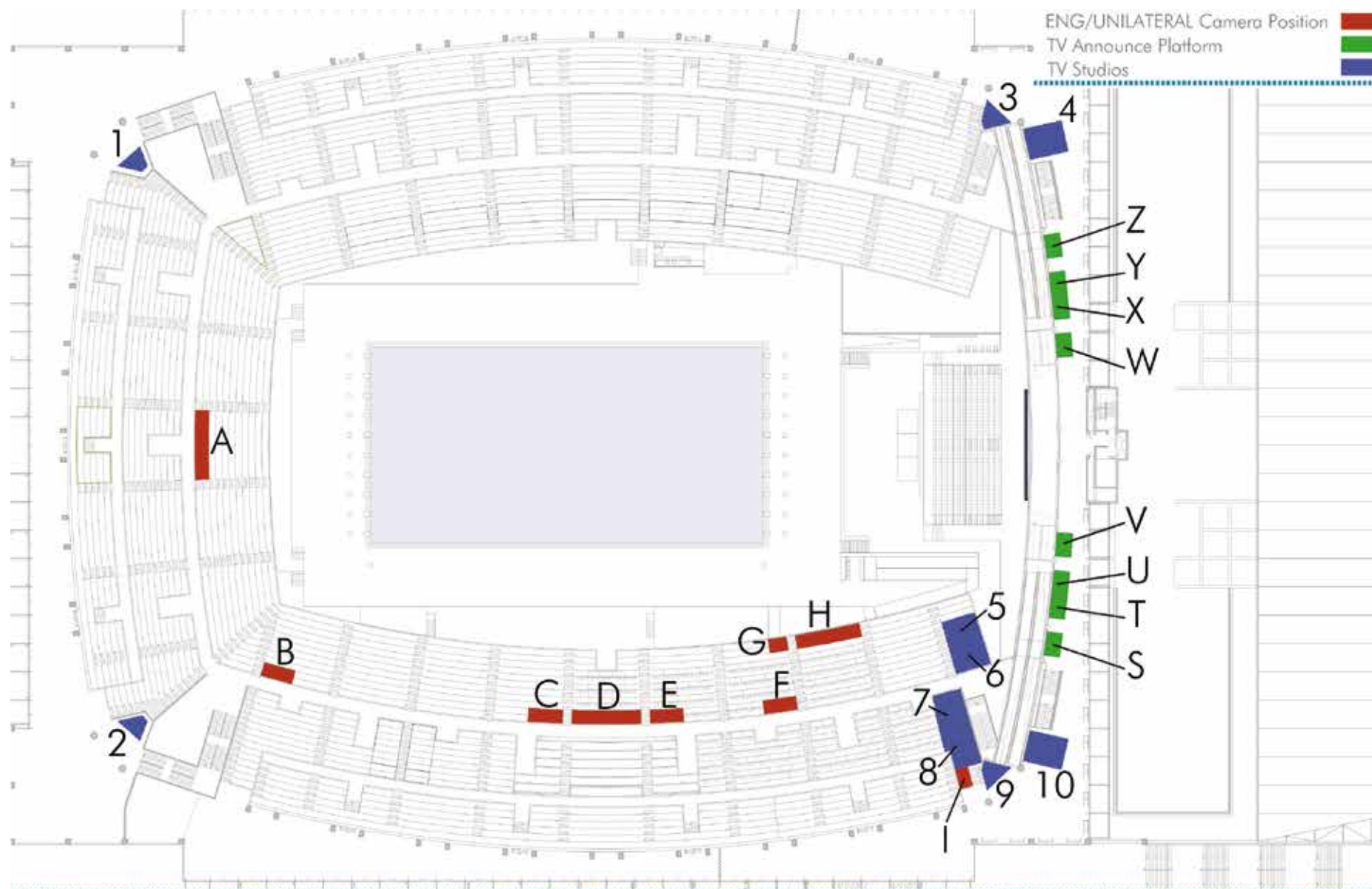


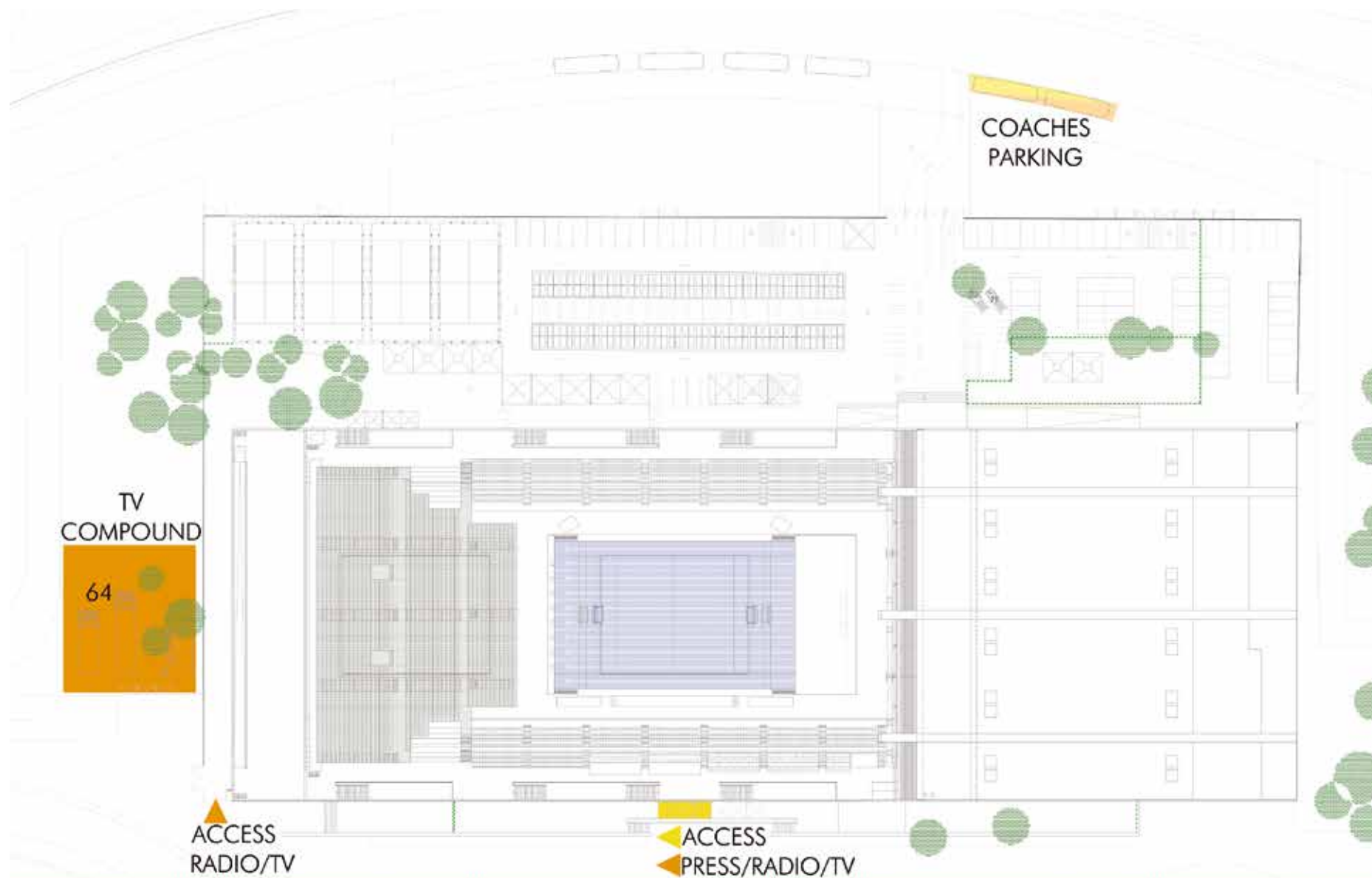


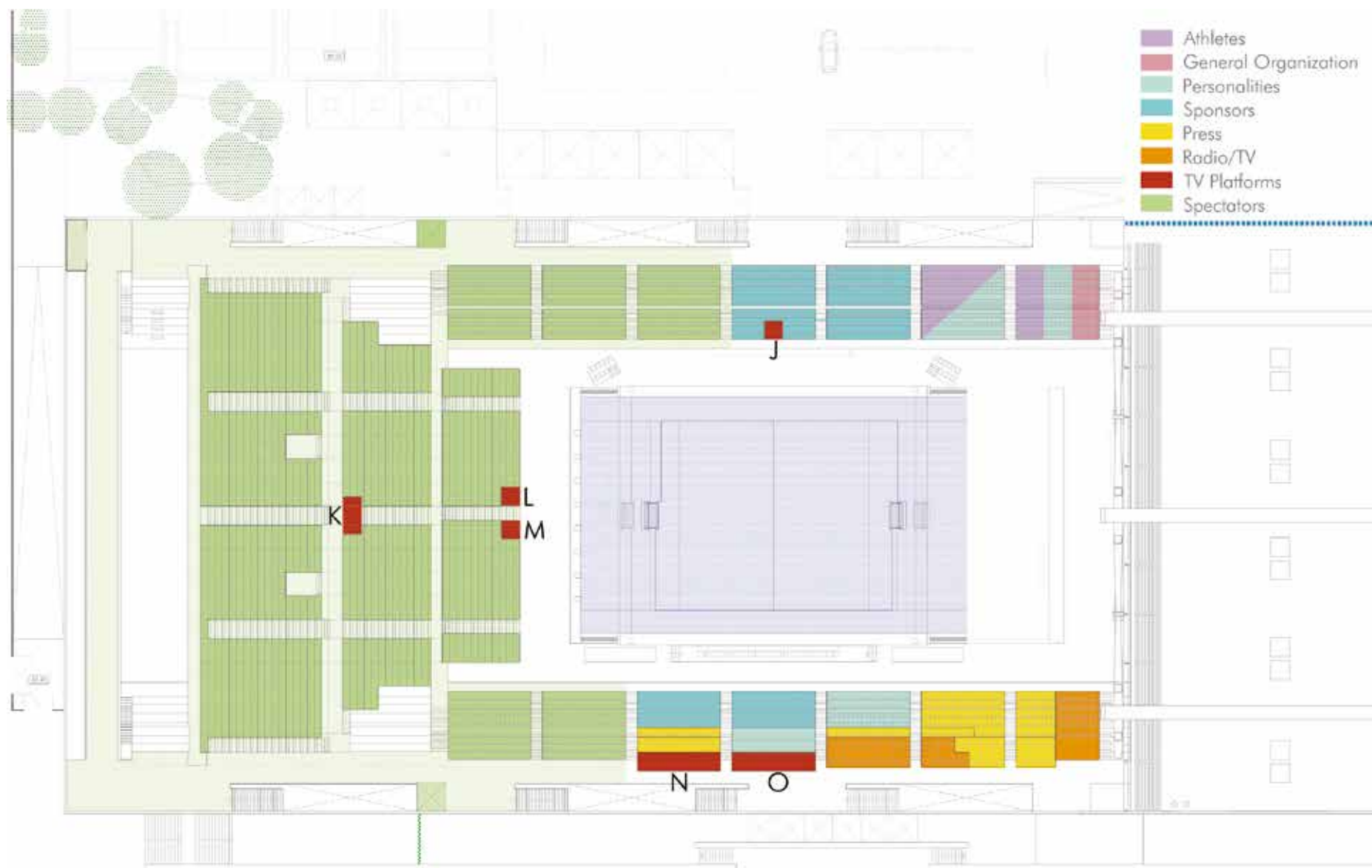


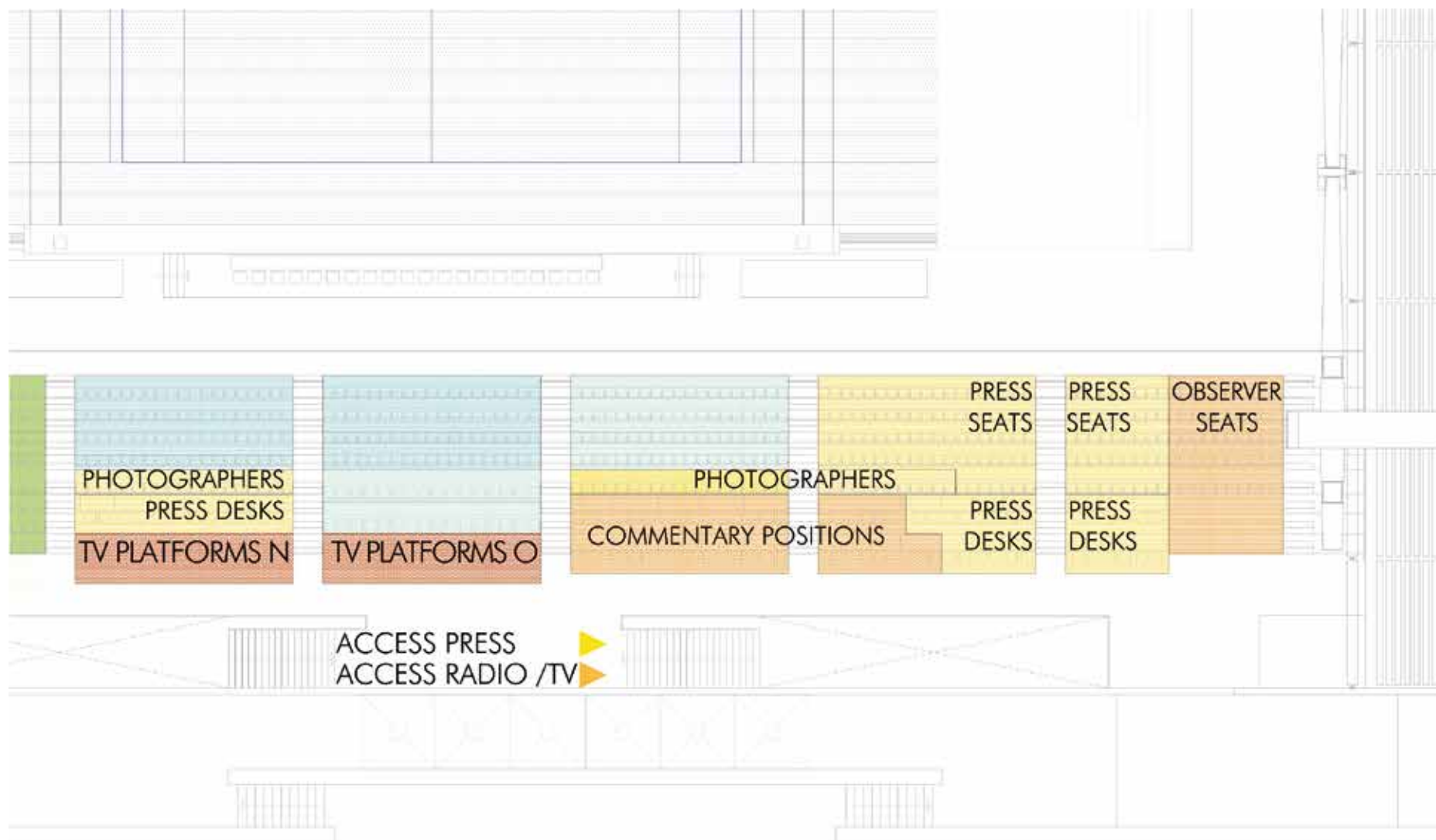




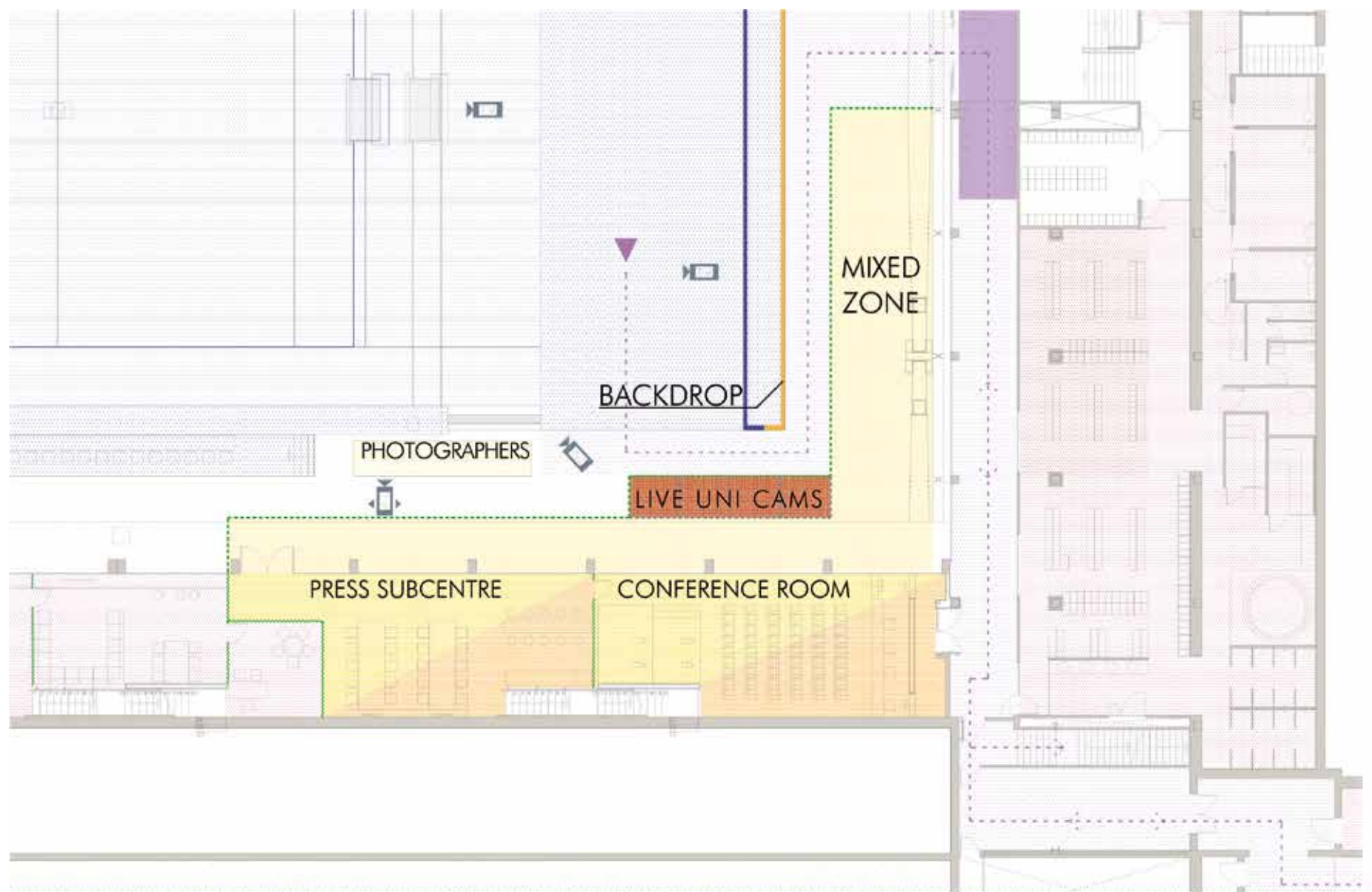




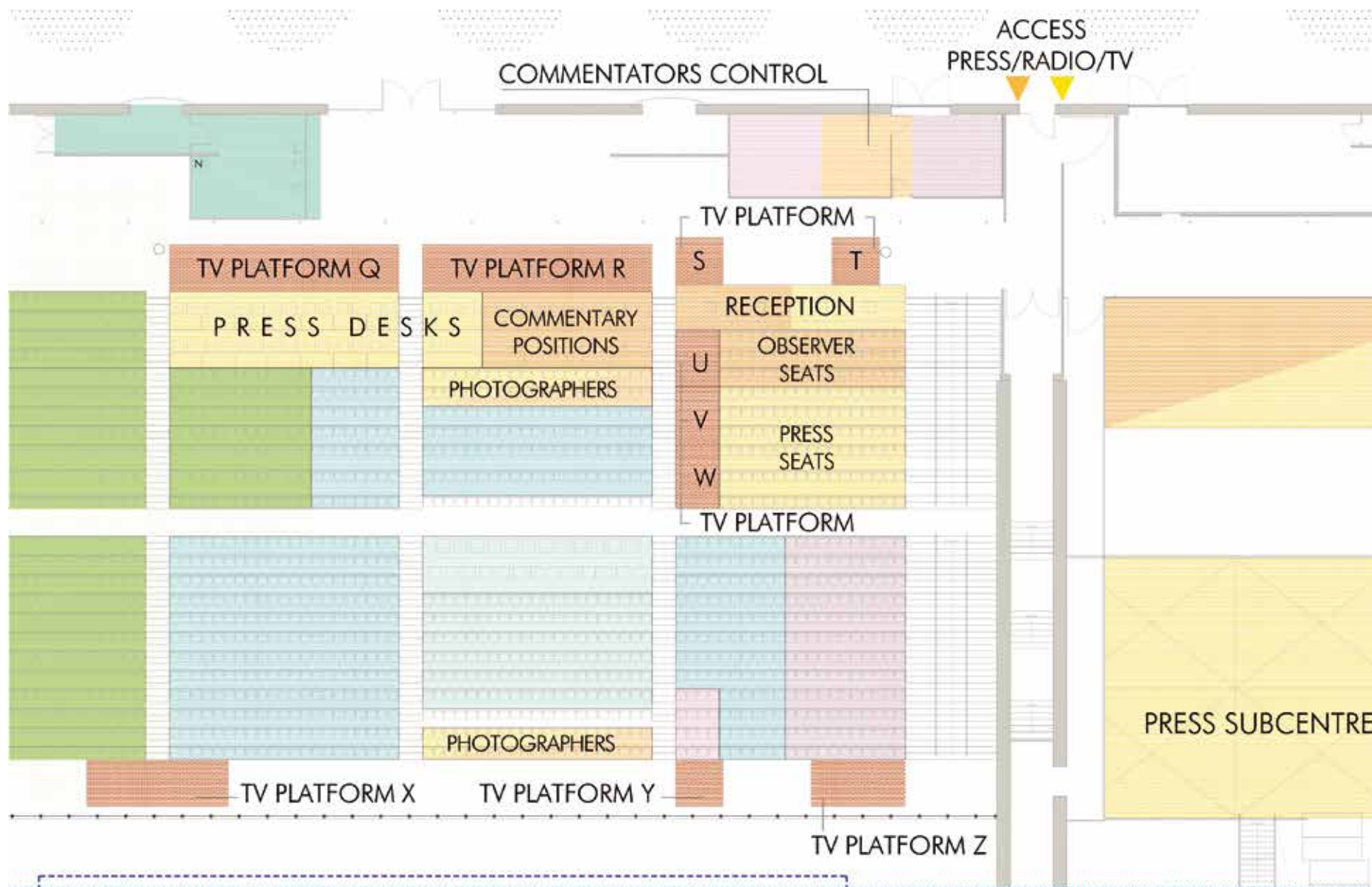




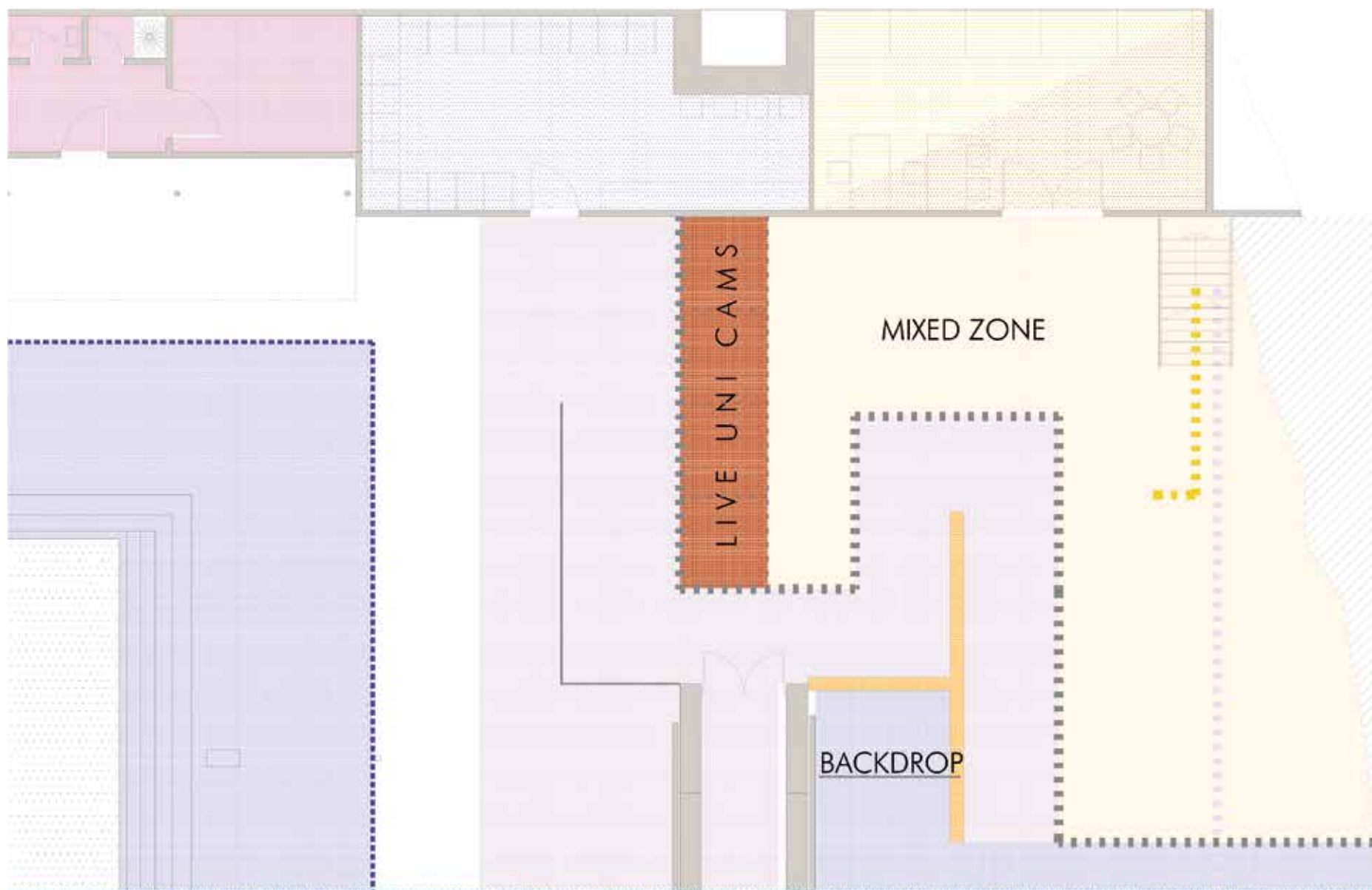




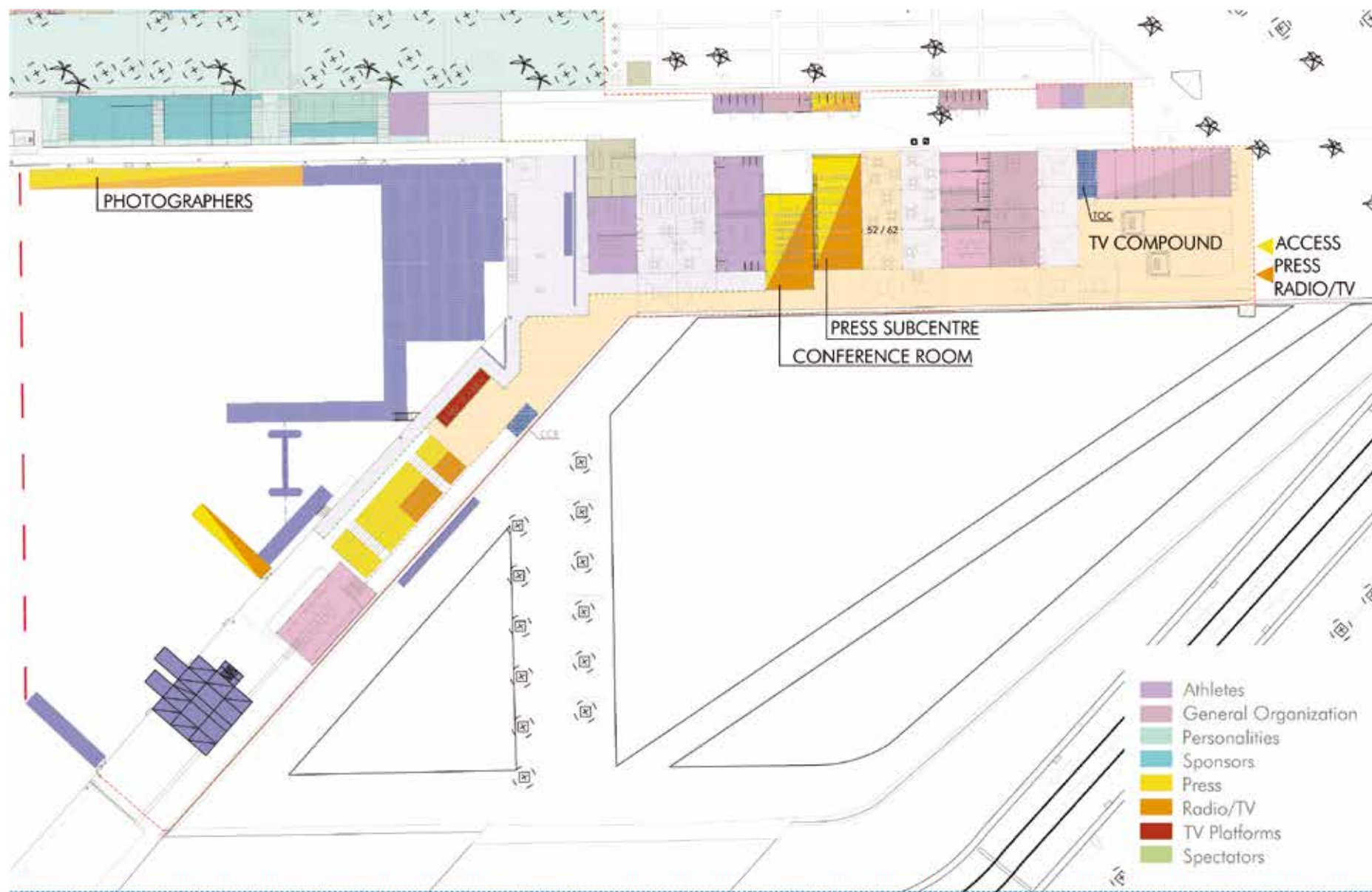


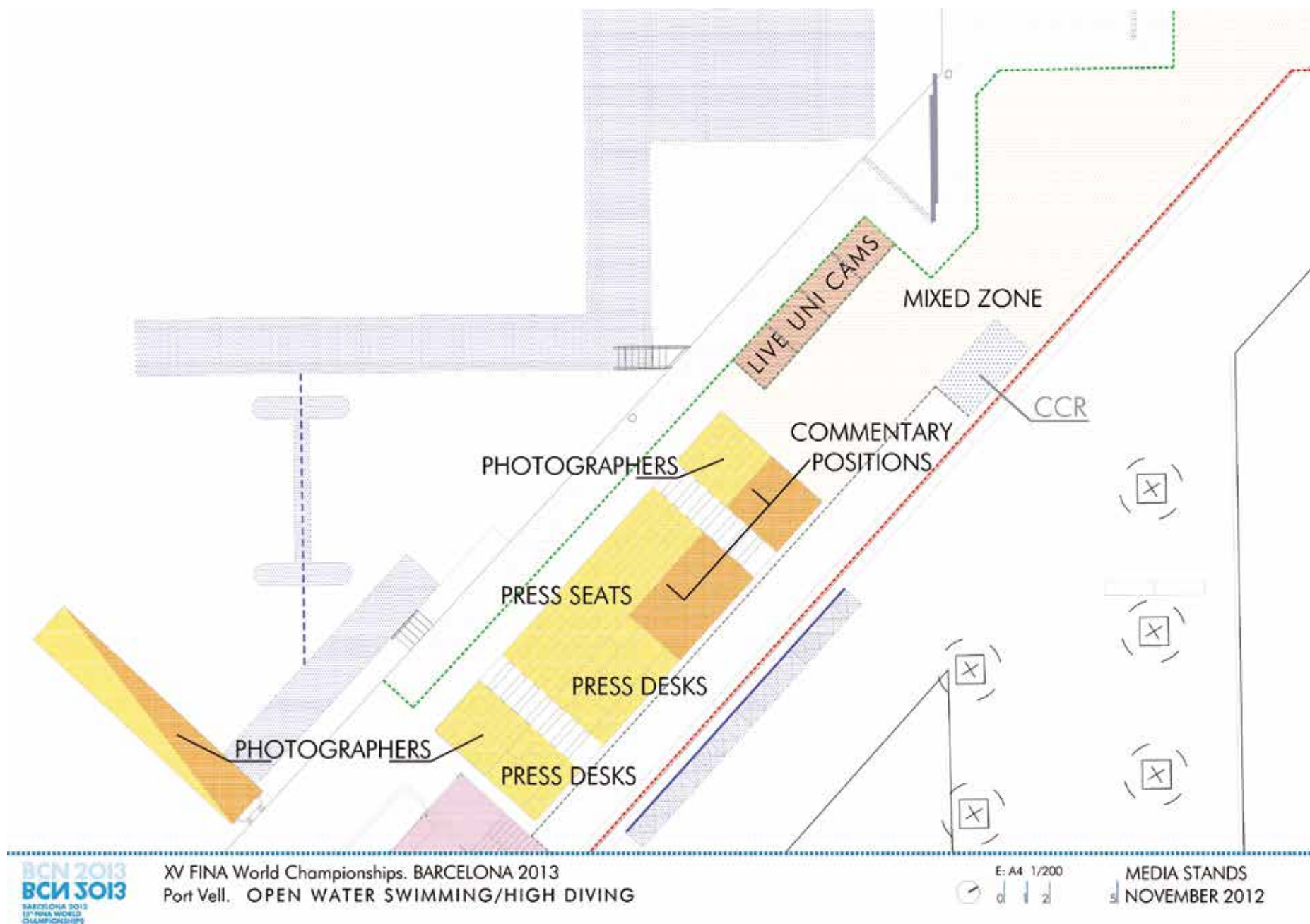












# BCN 2013 BCN 2013

## **BARCELONA 2013 15<sup>th</sup> FINA WORLD CHAMPIONSHIPS**

15<sup>os</sup> FINA CAMPEONATOS  
DEL MUNDO DE NATACIÓN

15<sup>es</sup> FINA CAMPIONATS  
DEL MON DE NATACIÓ

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## 10. SERVICES FOR BROADCASTERS

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## WORLD BROADCASTERS MEETING / **TV HANDBOOK**

## 10. SERVICES FOR BROADCASTERS

For the 15 FINA World Swimming Championships, the Host Broadcaster (RTVE) together with the Organising Committee (LOC BCN2013) will offer a wide scope of services to assist broadcasters in fulfilling their unilateral production needs as well as to ensure a smooth and efficient information flow from the different HB/LOC departments to RHBs.

In order to achieve this, two specific points of contact will be implemented for the RHBs.

### 10.1 Booking Office

The Booking Office will be run by the HB in conjunction with the LOC BCN2013 TV Department and will be composed of a team of experienced people in the broadcasting and sport events fields.

The Booking Office will be located in the IBC, within the HB area, near the main entrance to be easily reached from the RHB premises and from the International TV Compound.

It will officially open on 15th July. The working operational hours will be published closer to the event.

The Booking Office will be RHB's primary entrance door to the Championships and is responsible for:

- The check-in procedure upon RHBs arrival into the IBC.
- Arrival and parking coordination of RHBs unilateral trucks and vehicles liaising with the HB technical person in charge.
- Delivery of all the necessary accreditation devices.
- Receiving and processing RHBs bookings during the Championships, providing feedback and confirmations to the orders. Where necessary, coordination people or TV officers will be available.
- Registering the services ordered that will be included in the final invoice (end September).

### 10.2. Information Office

An Information Office will also be located inside the Annex Hall of Palau Sant Jordi to serve all the Media community: TV, Radio, Written Press and Photog-

raphers. General information on the competition, start lists, daily schedules, logistic related matters as well as last-minute information will be delivered from this desk.

### **10.3 Video on Demand & Video Server**

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The Local Organizing Committee BCN2013 is providing a central Video Server where all the produced International TV signals, from all the venues, will be ingested together with related metadata. RHBs that book this service will be able to search and access relevant footage of all the Championships in a very simple and easy way.

On the other hand, LOC BCN2013 is willing to offer RHBs a highly innovative Video on Demand platform, in order to satisfy their demands of contents designed for Internet and for new multimedia platforms, such as smartphones, iPads, tablets, SmartTV...

The service is designed as a bespoke solution, customized for each broadcaster interested in the project, at a very competitive rate. The possibility of developing a single project to be shared among several broadcasters will significantly reduce the costs of this platform.

Details of the service will be provided during the World Broadcasters Meeting. For more information, see section 7 of Rate Card.

# BCN 2013 BCN 2013

## **BARCELONA 2013 15<sup>th</sup> FINA WORLD CHAMPIONSHIPS**

15<sup>os</sup> FINA CAMPEONATOS  
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## 11. ACCREDITATION

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## WORLD BROADCASTERS MEETING / **TV HANDBOOK**



## 11. ACCREDITATION

### 11.1 Broadcast accreditation registration

All organizations participating in the Barcelona 2013 15th FINA World Championships must complete the accreditation process in order to obtain the Accreditation Card for their members.

The aim of this Organizing Committee is to take advantage of the new technologies in order to streamline and facilitate the procedures to all Broadcast organizations and thus reduce the management role as much as possible. Therefore, once the organization receives the website login details, the whole process will be done online.

#### 11.1.1 Submitting accreditation information

a) **System login details**

The Login details your organization contact person will receive to apply for the Rate Card, will be valid to log onto the GMS Online Registration System.

b) **Opening accreditation system**

GMS Online Registration System will be available from the 1st March till 25th June 2013.

c) **Submitting accreditation information**

Your organization is responsible for registering every potential member of your delegation from 1st March till 25th June 2013. This deadline will allow the Spanish Authorities and BCN2013 adequate time to verify data prior to the Championships.

d) **Accreditation confirmation**

Your contact person will receive by email the Accreditation approval or rejection for all the submitted members.

e) **Accreditation collection**

The Accreditation will be available to pick-up from the next 10th July 2013 at the Main Accreditation Center (MAC), located at the Olympic Stadium. The Event Accreditation passes are able to be picked up individually or a responsible person can collect the Accreditation for his entire team. However, he must present and identity card/passport for each member of the team.

### 11.1.2 Broadcast registration key dates:

Action	Date
<b>Access to General Management System (GMS) to submit the information</b>	From 1st March till 25th June 2013
<b>Accreditation collection at the Main Accreditation Center (MAC)</b>	From 10th July 2013

## 11.2 Press accreditation registration

Press registration process will be open for Journalists, Photographers and Web Journalists from 1st March 2013.

Login details will not be requested to access to the GMS Online Registration System. The application confirmation or rejection will be notified by email.

### 11.2.1 Press registration key dates:

Action	Date
<b>Access to General Management System (GMS)</b>	From 1st March till 1st July 2013

# BCN 2013 BCN 2013

## **BARCELONA 2013 15<sup>th</sup> FINA WORLD CHAMPIONSHIPS**

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## 12. ACCOMMODATION

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## WORLD BROADCASTERS MEETING / **TV HANDBOOK**

## 12. ACCOMMODATION

### 12.1 Media Accommodation Guide



The Accommodation guide is designed to provide information to Broadcasters interested in accommodation during the 15th FINA World Championships BCN 2013.

The Organising Committee together with Viajes el Corte Ingles, official travel agency has elected a number of hotels in Barcelona city located close to the competitions venues that will host the 15th FINA World Championships.

## 12.2 List of Official Hotels

---

HOTEL	CAT.	SINGLE	DOUBLE
HILTON BARCELONA	5*****	150,00 €	170,00 €
TORRE CATALUNYA	4****		
AC SANTS	4****	125,00 €	135,00 €
NH NUMANCIA	3***		
EXPO	4****	117,00 €	135,00 €

- Accommodation rates are per room and per night.
- Accommodation in a single room and double rooms include breakfast and Vat.
- City Tourist Tax is applicable for a maximum stay of 7 consecutive nights. The tourist tax will be payable at the hotel, and cannot be included in room rates or packages.
  - €2.50 per person per night for 5 star hotels
  - €1.25 per person per night for 4 star hotels
  - €0.75 per person per night for all other hotel

## 12.3 Booking Procedure

---

All reservations will be made through the BCN 2013 Online Registration and Accreditation System an online system that is used to manage all registrations and logistics, such as accreditation, accommodation and transport.

Each broadcaster will receive its username and password from BCN 2013 accreditation department.

Rooms will be distributed on a “first come, first served” basis.

## 12.4 Terms and Conditions

### Welcome Desk

The OC BCN 2013 will facilitate the following information at the hotel welcome desk

- Daily Programme
- Competition Timetable
- Transport Schedules
- Hotel Services
- City Information

### Check In & Check Out

- Check in time is at 3.00 pm
- Check out times 12:00 pm

### Transportation

For Teams, a Bus/Minibus transportation shuttle service will be provided.

- Transfer to/from Barcelona Airport only and Official Media Hotels.
- Shuttle bus to/from Official Media Hotels and Competition Venues.
- Transfer to/from Official Media Hotels and Opening and Closing Ceremony

### Key Milestones

<b>1 May 2013</b>	Closing of Hotel Provisional Booking procedure and Provisional entries.
<b>1 July 2013</b>	All Broadcasters must provide with the detailed rooming list with all names of participants.

### Payment Policy

<b>7 May 2013</b>	50% of the full reservation amount must be paid by 07 May 2013 at the latest.
<b>7 June 2013</b>	Remaining amount must be paid by 07 June 2013 at the latest.

### Form of payment

Payments can be made using bank wire transfer (after bank fees) or credit card.

Fees will be applied for credit card payments.

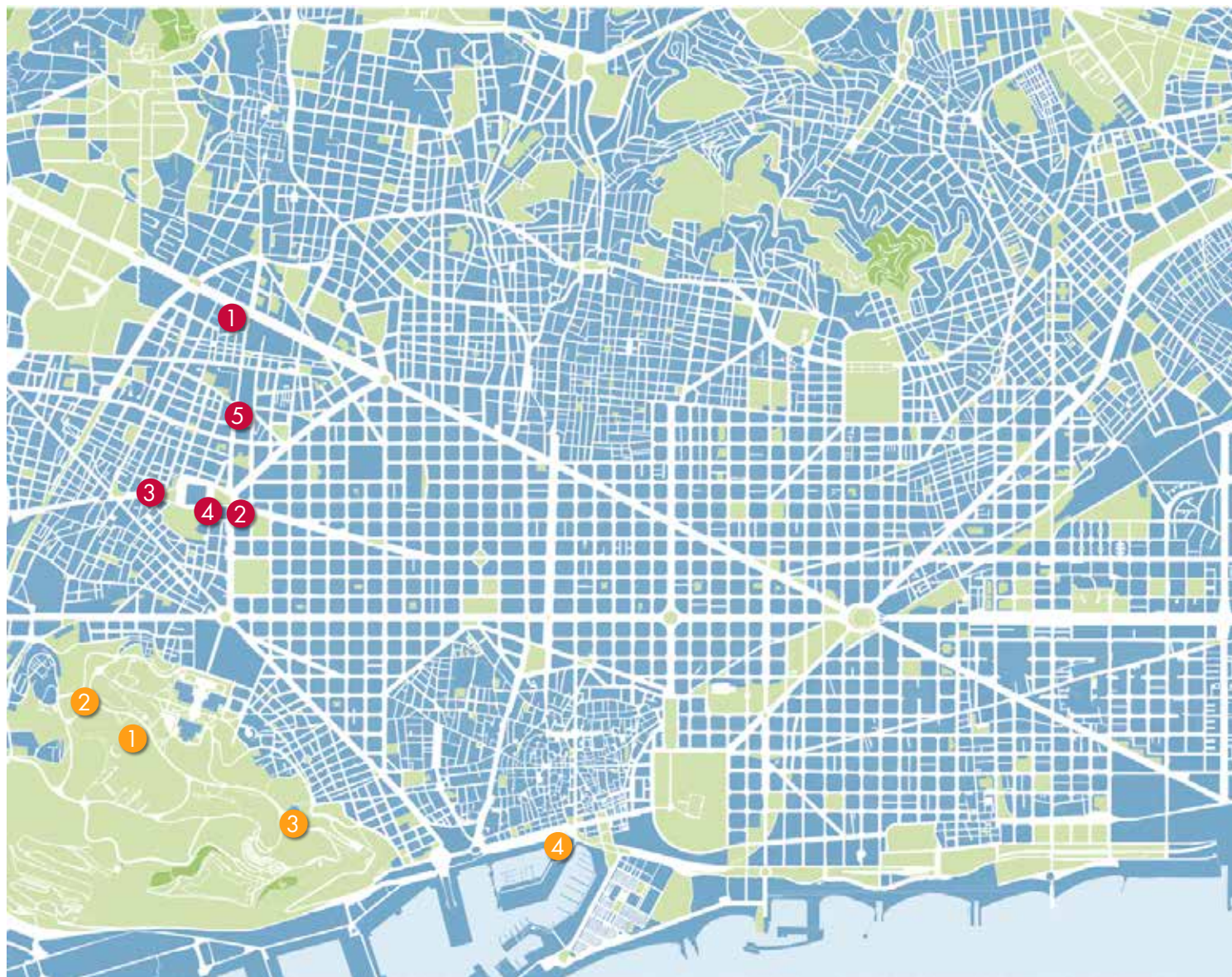
The price of bank wire transfers varies greatly, depending on the bank and its location.

### **Cancellation Policy**

1. Any cancellations prior 6 May 2013 without penalties
2. Cancellations made between 07 May and 26 May, will be penalized with a 25% charge of the total cost of the cancelled reservation.
3. Cancellations made between 27 May and 15 June 2013, will be penalized with a 50% charge of the total cost of the cancelled reservation.
4. Cancellations by 16 June, will be penalized with a 100% charge of the total cost of the cancelled reservation.



## BARCELONA MAP LOCATION HOTEL ACCOMODATION & VENUES



### MEDIA

1. Hilton Barcelona (5\*\*\*\*\*)
2. Torre Catalunya (4\*\*\*\*)
3. AC Sants (4\*\*\*\*)
4. Expo (4\*\*\*\*)
5. NH Numancia (3\*\*\*)

### VENUES

1. Palau Sant Jordi
2. Piscines Bernat Picornell
3. Piscina Municipal Montjuïc
4. Moll de la Fusta

## HILTON BARCELONA 5\*

Avenida Diagonal, 589-591.

08014 BARCELONA

www1.hilton.com

Located in the center of the financial district of Barcelona. Five minutes from the Maria Cristina Metro Station and Sants Station.



### Characteristics

**Total rooms** 289

**Rooms available** 125

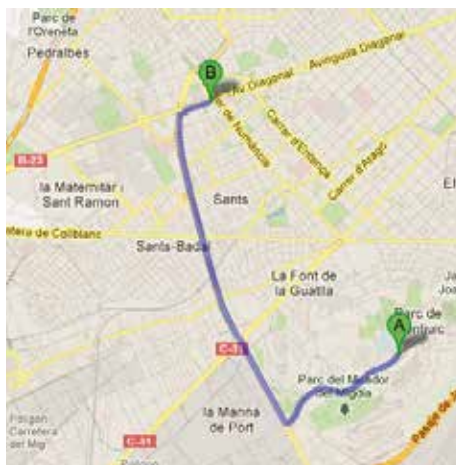
**Services** WiFi  
Business Center  
Gym  
Atrium bar and terrace  
Restaurants  
Conference Rooms

**Distance to places of interest** Airport 14,5 km  
Sants Train Station 2 km  
Montjuïc Olympic Std. 5,8 km

### Distance from hotel to Montjuïc

**Distance** 5,8 km

**Travel time by bus** 10 min.



## TORRE CATALUNYA 4\*

Avenida Roma, 2-4.

08014 BARCELONA

[www.torrecatalunya.com](http://www.torrecatalunya.com)

Located near the Sants Station. 10 minutes by walk from Montjuïc, Fira Barcelona Convention Center and España Square.

### Characteristics

**Total rooms** 272

**Rooms available** 100

**Services** WiFi  
Restaurant with panoramic views of Barcelona  
Business center  
Spa  
Gym

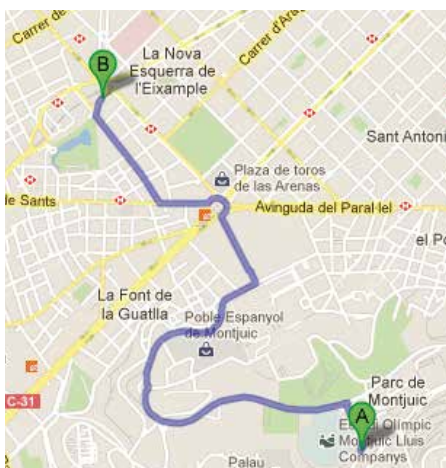
**Distance to places of interest** Airport 13,3 km  
Sants Train Station 200 m  
Montjuïc Olympic Std. 3,7 km



### Distance from hotel to Montjuïc

**Distance** 3,7 km

**Travel time by bus** 9 min.





## HOTEL EXPO 4\*

Mallorca 1-23.

BARCELONA

[www.expohotelbarcelona.com](http://www.expohotelbarcelona.com)

Located in downtown Barcelona, near the Sants Station.  
So close to Fira Barcelona Convention Center, Monjuïc  
and España Square.



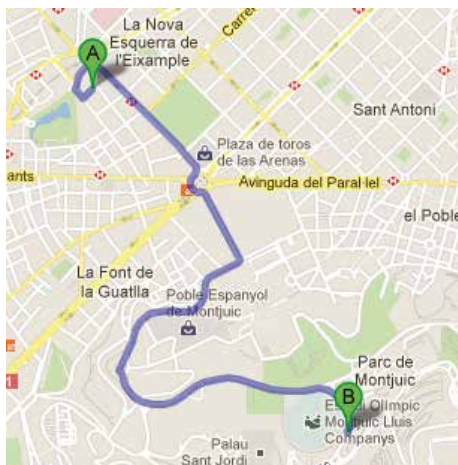
### Characteristics

<b>Total rooms</b>	423
<b>Rooms available</b>	150
<b>Services</b>	Parking Business center WIFI Terrace Conference Rooms
<b>Distance to places of interest</b>	Airport 16 km Sants Train Station 450 m. Montjuïc Olympic Std. 3,4 km

### Distance from hotel to Montjuïc

**Distance** 3,4 km

**Travel time by bus** 8 min.



## AC SANTS 4\*

Passeig de Sant Antoni 36-40.

08014 BARCELONA

[www.espanol.marriot.com](http://www.espanol.marriot.com)

AC Hotel Sants is located near the Sants Station, Fira Barcelona Convention Center and España Square. It's also so close to the facilities of Montjuïc Mountain.

### Characteristics

**Total rooms** 78

**Rooms available** 40

**Services** Gym  
WiFi  
Parking  
Ciber corner  
Conference Rooms

**Distance to places of interest** Airport 17,7 km  
Sants Train Station 3,4 km  
Montjuïc Olympic Std. 3,9 km



### Distance from hotel to Montjuïc

**Distance** 3,9 km

**Travel time by bus** 11 min.



### NH NUMANCIA 3\*

Numancia, 64.

08029 Barcelona

[www.nh-hoteles.es](http://www.nh-hoteles.es)

Located in the financial district of Barcelona, near a great mall and close to the Sants Station.



### Characteristics

**Total rooms** 208

**Rooms available** 100

**Services** Restaurants  
Bar  
Conference Rooms  
Parking  
WIFI

**Distance to places of interest** Airport 14,1 km  
Sants Train Station 850 m.  
Montjuïc Olympic Std. 5,1 km

### Distance from hotel to Montjuïc

**Distance** 5,1 km

**Travel time by bus** 11 min.



# BCN 2013 BCN 2013

## BARCELONA 2013 15<sup>th</sup> FINA WORLD CHAMPIONSHIPS

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## 13. LOGO & MASCOT

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WORLD BROADCASTERS MEETING / **TV HANDBOOK**



## 13. LOGO & MASCOT

BCN 2013  
BCN 3013

**BARCELONA 2013**  
**15<sup>th</sup> FINA WORLD**  
**CHAMPIONSHIPS**

15<sup>es</sup> FINA CAMPEONATOS  
DEL MUNDO DE NATACIÓN

15<sup>es</sup> FINA CAMPIONATS  
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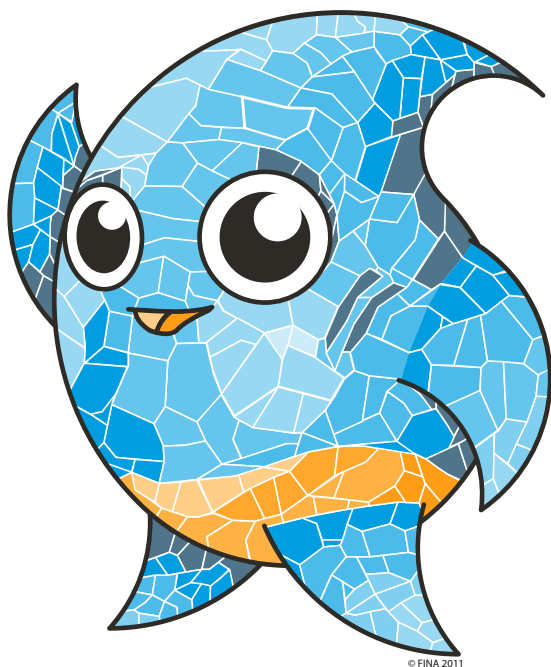
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### 13.1 Submerge yourself in Barcelona 2013

The brief submitted for the creation of the official logo of the 15th FINA World Championships had various elements to be taken into consideration during the design process. Firstly it had to be a universal and easily recognizable logo but also had to transmit innovation and avant-gardism that the city of Barcelona is so acclaimed for. Lastly, the logo had to portray the swimmers and the water as a driving force and in tribute to their tireless endeavours in this passionate competition.

The logo Underwater designed by the agency Virgili Graphic Communication was approved as the official logo of Barcelona 2013 The swimmers natural ambit is water where they are capable of doing unimaginable things. We put ourselves in their position and try to see the world through their eyes, we submerge ourselves and get caught in the flow where the swimmers take themselves to new limits and connect with the water.

We find a fantastic world, where the water is literally at our feet, a dream where we discover the flow, precision and the sacrifices made by the swimmers. In the graphic communication we have created a series of strokes that perfectly represent the movements in this underwater world. The public will see a small part of what goes on in this magical world through the eyes of the swimmers.



## 13.2 Xop, the mascot

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A drop of water will be the official mascot of the 15th FINA World Championships Barcelona 2013. The winner has been elected among 200 proposals that were sent to the event organizers of Barcelona 2013 as part of an online public competition. Proposals arrived from all over the world, but finally, Albert Mir, a designer who lives in Barcelona but was born in Menorca, won the public contest.

The mascot, called Xop, is covered in multi-colored mosaic tiles inspired by Gaudi's art.

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*The use of the mascot and logo has to respect the style manual, which contains the different applications of both items. If you need this manual, don't hesitate to contact us by sending an email to: [sllorens@bcn2013.com](mailto:sllorens@bcn2013.com)*

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# BCN 2013 BCN 2013

## BARCELONA 2013 15<sup>th</sup> FINA WORLD CHAMPIONSHIPS

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## 14. TIMELINES

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## WORLD BROADCASTERS MEETING / **TV HANDBOOK**

## 14. TIMELINES

**21-23 November** WBM

**15 January 2013** Deadline for Video-on-demand bookings

**1 March 2013** GMS opens for Accreditation requests

**15 March 2013** Deadline for Rate Card bookings

**15 April 2013** First invoice for Rate Card (60%)

**1 May 2013** Closing of Hotel Provisional Booking procedure and Provisional entries.

**7 May 2013** First payment (50%) of the Accommodation Request

**7 June 2013** Remaining amount (50%) of the Accommodation Request.

**25 June 2013** Deadline for accreditation requests

**30 June 2013** Second invoice for Rate Card Services (40%)

**1 July 2013** Detailed rooming list of all Broadcasters with all the name of participants.

**10 July 2013** IBC opens

**10 July 2013** Accreditation collection at the Main Accreditation Center (MAC)

**15 July 2013** Main Accreditation Centre (MAC) opens

**15 July 2013** Booking Office opens

**17 July 2013** FINA Congress

**18 July 2013** Barcelona 2013 Official Press Conference

**19 July 2013** Opening Ceremony

**4 August 2013** Closing Ceremony

**30 Sept. 2013** Final invoice for services booked during the event

# BCN 2013 BCN 2013

## BARCELONA 2013 15<sup>th</sup> FINA WORLD CHAMPIONSHIPS

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## 15. RATE CARD

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## WORLD BROADCASTERS MEETING / **TV HANDBOOK**

## 15. RATE CARD

### GMS Rate Card module

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#### 1. Introduction

The GMS Rate Card module is an application that allows to manage sale and rental of products and services during a sport event.

The main final users of this system can be Delegations, Broadcasters, Press or any other relevant stakeholder.

The Organising Committee initially creates a catalog of products and services. Then, the clients will request the Organising Committee any product and/or service through the system.

#### 2. Access

The Rate Card application is an online based system that can be accessed via internet. A user and password will be requested in order to log in.

#### 3. Functioning

The Rate Card main page will show:

- A menu of available options on top.
- An index of available products & services on the left.
- A display of selected products & services on the right.

The client will be able to navigate through the products & services catalogue, consult the item's description and add it to the request.

Once the client has finished the selection of items, a request can be processed and submitted to the Organising Committee.

During this process, the client will be requested to confirm the products selection, accept the Terms & Conditions and provide the shipment data.

The final invoice can be printed and an email confirmation will be automatically sent to the client.



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2. Venue Services
3. Furniture & Office Equipment
4. Broadcast Services
5. Bookable Services
6. Telecommunications
7. Additional Broadcast Services
8. Terms & Conditions

## Glossary

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<b>BCN2013</b>	Organising Committee 15th FINA World Championships Barcelona 2013
<b>CATV</b>	Cable Television
<b>CCR</b>	Commentary Control Room
<b>CDN</b>	Content Delivery Network
<b>CIS</b>	Commentary Information System
<b>FINA</b>	Fédération Internationale de Natation – International
<b>FOC</b>	Free of charge
<b>HB</b>	Host Broadcaster
<b>IBC</b>	International Broadcasting Centre
<b>IDD</b>	International Direct Dialling
<b>ISDN</b>	Integrated Services Digital Network
<b>ITVS</b>	International Television Signal
<b>MADI</b>	Multichannel Audio Digital Interface
<b>MCR</b>	Master Control Room
<b>MPC</b>	Main Press Center
<b>POA</b>	Price on application
<b>POTS</b>	Plain Old Telephone Service
<b>RFEN</b>	Real Federación Española de Natación
<b>RHB</b>	Rights Holding Broadcaster
<b>RTVE</b>	Radio Televisión Española
<b>SGI</b>	Integrated Management System
<b>TBD</b>	To be determined
<b>TDC</b>	Technical Distribution Center
<b>TDT</b>	Digital Terrestrial Television
<b>TOC</b>	Technical Operations Center
<b>VOD</b>	Video on demand
<b>WBM</b>	World Broadcasters Meeting
<b>SW</b>	Swimming competition
<b>SS</b>	Synchronized Swimming competition
<b>WP</b>	Water Polo competition
<b>DV</b>	Diving competition
<b>OWS</b>	Open Water Swimming competition
<b>HDV</b>	High Diving competition

## Introduction

### The Rate Card

The present Rate Card of Services has been designed by the Host Broadcaster (RTVE) together with the Local Organising Committee (LOC) in order to satisfy the needs of those broadcasters who have acquired the rights for the 15 FINA World Championships Barcelona 2013 and plan to cover the event, onsite or from home.

This document includes all the traditional and functional services that will be requested by those Rights Holding Broadcasters (RHBs) to fulfil their production needs, but it also incorporates some new and trendy concepts such as the Video Server and the Video on Demand. Our aim is to provide the most up-to-date services, as well as to offer the most innovative concepts in the sport events and new technologies markets.

The services and facilities listed in the next pages should satisfy the majority of RHBs requirements. However, where this will not be the case and different options or solutions shall be needed, the Host Broadcaster and the LOC will be fully available to study any special requests. They will be treated on a case-by-case basis and, wherever possible, a bespoke solution will be offered.

The Rate Card has been divided in the following sections:

- IBC Services
- Venue Services
- Furniture & Office Equipment
- Broadcast Services
- Bookable Services
- Telecommunications
- Additional Broadcast Services
- Terms & Conditions

Once your petitions will be submitted into Rate Card Module of the GMS, and until the IBC will officially open, your bookings and specific requirements will be treated via email with the HB Project Coordinator and the LOC TV Coordinator. When the IBC will open, the Booking Office will be your point of contact with the above mentioned people and their teams, which will work to assist you in the most efficient way for the duration of the event.

### The Broadcasters Domain at Palau Sant Jordi

The Broadcasters domain at Palau Sant Jordi is composed of the International

Broadcasting Centre (IBC), the International TV Compound, the Satellite Farm and the Host Broadcaster Compound.

### International Broadcast Centre (IBC)

The IBC will be located in the Annex Hall of the Palau Sant Jordi. The area has a total surface of 3000 m<sup>2</sup> in the following shape: 94m long x 32m width x 14m height. In addition to the HB technical and operational areas, the IBC will host the different RHBs dedicated unilateral spaces. Some common services, such as Information Desk, Transportation desk, Medical Services, Catering, etc., will be shared with the adjoining Main Press Centre.

### International TV Compound

The International TV Compound at the Palau Sant Jordi will be divided in two different areas:

- TV Compound A1, located south to the Palau Sant Jordi, in an area of 965 m<sup>2</sup>.
- TV Compound A2, located east to the Palau Sant Jordi, in an area of 380 m<sup>2</sup>.

RHBs will be allocated at the International TV Compound the necessary space to park their OB Vans, tender vehicles, support and edit vans. There will be one Technical Distribution Centre (TDC) at each area of the compound for the RHBs to access the HB feeds.

RHBs will be assigned TV Compound A1 or A2 depending on their technical needs and the location of their unilateral areas at the Palau Sant Jordi competition venue.

In case it proves necessary, a third area in the vicinity of Palau Sant Jordi can be used as International TV Compound. It would be TV Compound A3, located further east to the Palau Sant Jordi, in an area of 2.310 m<sup>2</sup>.

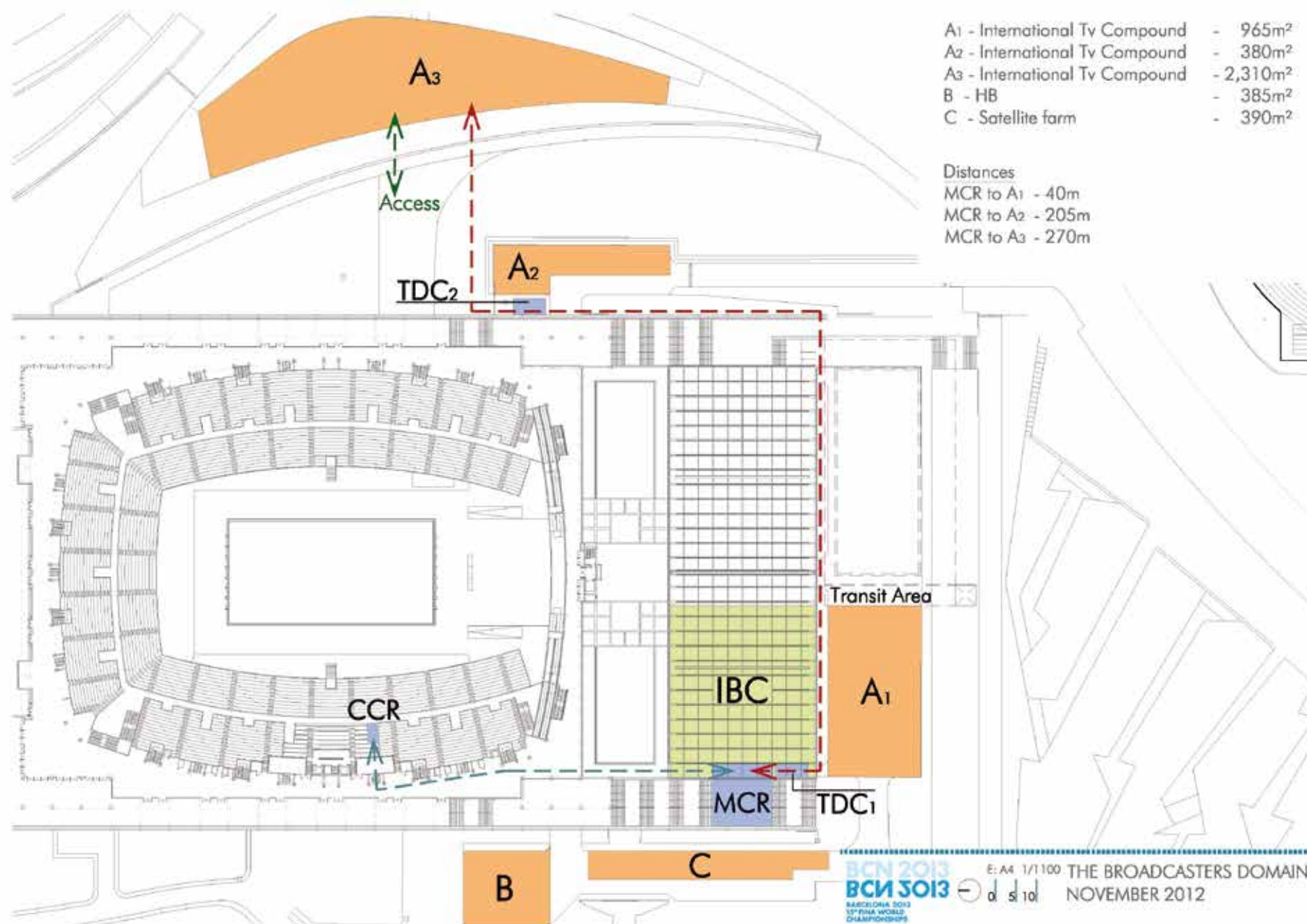
### Satellite Farm

Close to the Annex Hall and along the west-south side of the Palau Sant Jordi, there is a dedicated parking space that will allocate the Satellite Farm. Dedicated and secured space for SNG vehicles will be available here for RHBs that so demand.

TV Compound A3 can also accommodate SNG vehicles if need be.

### Host Broadcaster Compound

The HB Compound for the Palau Sant Jordi, where the Swimming competitions, the Synchronized Swimming competitions and the Water Polo finals will take place, will be located west of the complex, in an area of approximately 385 m<sup>2</sup>.



### Host Broadcaster Compounds at other venues

There will be secondary HB Compounds at Piscines Bernat Picornell (Water Polo), Piscina Municipal de Montjuïc (Diving) and Moll de la Fusta (Open Water Swimming and High Diving) venues.

Limited room could be made available to RHBs in case there is demand for Unilateral parking space in those venues. Requests for such space in the secondary HB Compounds should be addressed to the HB and would be studied on a case-by-case basis.

## 1. IBC Services

### 1.1 IBC Raw Space

RHBs shall submit their orders for working spaces inside the International Broadcast Centre (IBC) and provide the total raw space needed:

<i>Item Code</i>	<i>Item</i>	<i>Price per Sq. metre</i>
1.1.1.	IBC Raw Space	250 €

IBC Raw space includes:

- Access to domestic and technical power
- Existing floor surface
- Basic cleaning and janitorial services
- General use of IBC facilities
- General air conditioning for office use

### 1.2 Construction

In terms of construction, standard office modules or a customized space can be ordered:

- Basic office and production spaces, 18m2 surface, 6mx3m, without inside partitions, are offered as Standard Office Module.

<i>Item Code</i>	<i>Item</i>	<i>Price per Unit</i>
1.2.1.	Standard Office Module, 18m2 surface, 6mx3m	9,000 €

- Customised office spaces, resulting from adding 2 or more basic modules, with special construction needs are offered and will be quoted upon request. In this case, a drawing showing the exact distribution needed must be submitted by the time of the bookings deadline.

From that date onwards, we will work on your requests and frequent communication will be maintained specially with those RHBs asking for customized spaces in order to be sure that we meet with their requirements. Following that, a construction statement will be sent and a confirmation from the RHB authorized person required. Any changes after that moment may result in additional

costs or non-availability of certain items or modifications.

<i>Item Code</i>	<i>Item</i>	<i>Price</i>
1.2.2.	Customised Office Module	POA

### 1.3 International TV Compound

RHBs are responsible to book parking space for their OB Vans, tender vehicles, support and edit vans in the International TV Compound.

<i>Item Code</i>	<i>Item</i>	<i>Price per Sq. metre</i>
1.3.1.	Parking space at the International TV Compound	24 €

Services included at the International TV Compound are the following:

- Parking into a secured area, including the necessary circulation space
- Access to domestic and technical power
- Access to telecommunication services
- Cable pathway to the TDCs and the Palau Sant Jordi dedicated areas
- Basic cleaning and janitorial services

### 1.4 Satellite Farm

Raw space for parking SNG vehicles can be ordered in the Satellite Farm.

<i>Item Code</i>	<i>Item</i>	<i>Price per Sq. metre</i>
1.4.1.	Parking space at the Satellite Farm	14 €

The services at the Satellite Farm also include:

- Parking into a secured area, including the necessary circulation space
- Access to domestic and technical power
- Access to telecommunication services
- Cable pathway from the TDCs and the International TV Compound
- Basic cleaning and janitorial services

### 1.5 Storage Space

A separate location, but nearby the Broadcasters Domain, has been planned as storage area, where storage cabins can be ordered to the LOC BCN2013.



<i>Item Code</i>	<i>Item</i>	<i>Price per Unit</i>
1.5.1.	Storage cabin, 6.2mx2.44mx2.5m.	870 €

In the event one RHB was planning to bring their own storage containers, raw space for placing them could be made available in the same area, or at the vicinity, at the rate mentioned below. Dimensions shall be provided in advance.

<i>Item Code</i>	<i>Item</i>	<i>Price per Sq. metre</i>
1.5.2.	Raw space for own storage container	15 €

Services included:

- Raw space
- General security

No crane or transport means are included in the price.

### **1.6 Car Parking**

Limited places for car parking will be made available to RHBs by LOC BCN2013. Distribution will be made depending on general needs and availability.

<i>Item Code</i>	<i>Item</i>	<i>Price</i>
1.6.1.	Car parking spaces	Free of Charge

### **1.7 Air Conditioning**

Additional A/C units can be supplied upon request.

<i>Item Code</i>	<i>Item</i>	<i>Price</i>
1.7.1.	Additional A/C unit	POA

### **1.8 Power in the IBC and the International TV Compound**

The power standard in Spain is: 230/400V 50HZ 3ph+neutral+ground. Limitation in single phase supply (1 ph+neutral): 230V / 4 KW maximum / 20 Amp.

### 1.8.1 Power Consumption

Item Code	Item	Price (per KVA for the event duration)
1.8.1.1.	Domestic Power Consumption	340 €
1.8.1.2.	Technical Power Consumption	285 €

### 1.8.2 Power Cabling



#### 1.8.2.1 Domestic Power



Item Code	Item	Price per meter
1.8.2.1.1.	230/16A Domestic (single phase) 5 KVA	76 €
1.8.2.1.2.	230/32A Domestic (single phase) 5 KVA	76 €
1.8.2.1.3.	230/32A Domestic (single phase) 10 KVA	76 €
1.8.2.1.4.	230/63A Domestic (single phase) 20 KVA	76 €

#### 1.8.2.2 Technical Power

Item Code	Item	Price per meter
1.8.2.2.1.	230V/16A Tech Power (single phase) 5 KVA	76 €
1.8.2.2.2.	230V/32A Tech Power (single phase) 5 KVA	76 €
1.8.2.2.3.	230/400V/16A Tech Power (three phase) 5 KVA	152 €
1.8.2.2.4.	230/400V/32A Tech Power (three phase) 10 KVA	152 €
1.8.2.2.5.	230/400V/63A Tech Power (three phase) 20 KVA	282 €
1.8.2.2.6.	230/400V/125A Tech Power (three phase) 50 KVA	670 €

### 1.8.3. Electrical panels

<i>Item Code</i>	<i>Item</i>		<i>Price per event</i>
1.8.3.1.	<b>32A – 6 x Schuko single phase, 20KVA SIEMENS</b>  Power Input: 400V 3Ph+N+ E Power Output: 230V Ph+N+E Automatic general switch: 32A Protection index: IP67 Max power: 20KVA Power cable min.: 5G6mm2 Input connection: CEE32A-5Pins Output connection: 6xSchuko sockets, thermal protection 16A and 10A.		450 €
1.8.3.2.	<b>63A – 2 x 32A 3-phase, 40KVA SIEMENS</b>  Power input: 400V 3Ph+N+E Power output: 400V 3Ph+N+E Automatic general switch: 63A Protection index: IP67 Max power : 40KVA Power cable min.: 5G10mm2 Input connection: aerial socket CEE63A-5Pins Output connection: 2xCEE32A-5Pins socket, thermal protection 32A in each socket.		752 €

1.8.3.3.	<p><b>160/125A – 2 x 63A + 4 x 32A 3-phase, 100KVA SIEMENS</b></p> <p>Power input : 400V 3Ph+N+E Power output: 400V 3Ph+N+E Automatic general switcher: 160/125A (adjustable) Protección index: IP67 Power max: 110KVA Power cable min.: 35mm2 Input connection: Board of terminals Output connection: 2xCEE63A-5Pins sockets thermal protection 63A and digital adjustable switch in each socket. 4 x CEE32A-5Pins socket thermal protection 32A</p>		2,730 €
1.8.3.4.	<p><b>200/160A – 6 x 32A 3-phase, 140KVA SIEMENS</b></p> <p>Power input: 400V 3F+N+T Power output: 400V 3F+N+T Automatic general switcher: 200/160A (adjustable) Protection index: IP67 Power max: 140KVA Power cable min: 50mm2 Input connection: Board of terminals Output connection: 6 x CEE32A-5Pins socket thermal protection 32A</p>		3,024 €

## 1.9 IBC Cabling

Cabling within the IBC, including tielines from/to the MCR to/from the RHBS dedicated areas, is the sole responsibility of the Host Broadcaster.

Unilateral VandaS and/or audio tielines to/from the commentary positions area will also be run and managed by the HB and delivered to RHBS through the TDCs. RHBS are responsible for cabling:

- From/to the International TV Compound to/from their dedicated unilat-

eral areas at the Palau Sant Jordi competition venue (except from/to the commentary positions)

- From/to the International TV Compound to/from the assigned TDC
- From/to the International TV Compound to/from the RHB's SNG (when this is the case)

The HB will design and cooperate closely with LOC BCN2013 to install secured, undisturbed, easy access and the shortest possible cable pathways for RHBs. Upon request, HB can provide quotation for all RHBs cabling needs.

<i>Item Code</i>	<i>Item</i>	<i>Price</i>
1.9.1.	IBC cabling	POA

The service will include the cables and the crew. A detailed list with the type of cable and connectors requested shall be provided at the time of the booking. Prices will be quoted according to the application.

## 2. Venue Services

### 2.1 Commentary Positions

Media Tribunes have been equipped with three different types of commentary positions in order to satisfy the needs of the different Media groups.

#### 2.1.1 Fully equipped commentary position

A fully equipped commentary position includes:

- 1 table and 3 chairs (1.80m)
- ISDN codec provided by the HB (model AEQ MPAC-02 or AEQ DCS-10 subject to venue configuration and needs)
- 2 headsets
- 1 x 16:9 small colour TV with venue international signal
- TV International sound
- 1 CIS monitor
- 4 Power outlets
- LAN Internet Access
- WIFI Internet Access (only in Palau Sant Jordi)
- Desk lamp (only in Palau Sant Jordi)
- Technical assistance

#### 2.1.2 Partially equipped commentary position

A partially equipped commentary position includes:

- 1 table and 3 chairs (1.80m)
- 1 x 16:9 small colour TV with venue international signal
- TV international sound
- 1 CIS monitor
- 4 Power outlets
- LAN Internet Access
- WIFI Internet Access
- Desk lamp (only in Palau Sant Jordi)
- Technical assistance

Commentary codec and headsets are to be provided by the user.

#### 2.1.3 Radio Reporting Position

A radio reporting position includes:

- 1 table and 2 chairs (1,20m)
- 1 x 16:9 small colour TV with venue international signal

- TV International sound
- 1 CIS monitor
- 2 Power outlets
- LAN Internet Access
- WIFI Internet Access
- Desk lamp (only in Palau Sant Jordi)
- Technical assistance

Commentary codec and headsets are to be provided by the user.

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*For all commentary positions, ISDN lines must be ordered separately.*

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Prices are established per type of position and per discipline:

Item Code	Type of commentary position	Discipline			
		HDV	OWS	SW, SS, DV, HDV + OWS, Men WP or Women WP	WP (full competition)
2.1.1.	Fully equipped	2,700 €	3,700 €	4,700 €	6,300 €
2.1.2.	Partially equipped	1,350 €	1,850 €	2,350 €	3,150 €
2.1.3.	Reporting position	675 €	925 €	1,175 €	1,575 €

Remarks:

- Fully equipped and partially equipped commentary positions and reporting positions will be available for the duration of the event at each venue.
- Opening and Closing Ceremonies are included in the rate of Synchronized Swimming and Swimming.
- Water Polo changes from Piscines Bernat Picornell venue to Palau Sant Jordi

venue only for the Finals (M & W).

- All the above facilities will be available and in service from 60 minutes before the start to 30 minutes after the end of every competition.

## 2.2 Dedicated Mixed Zone Position

### 2.2.1 Dedicated TV Mixed Zone Position

Broadcasters can book a permanent TV Mixed Zone position at each competition venue.

Item Code	Item	Price per position, per venue
2.2.1.	Dedicated TV Mixed Zone Position	2,500 €

Each TV Mixed Zone position includes:

- Fenced area of 1.8m x 1.8m for a maximum of 3 people at the same time
- 1 KVA domestic power
- Basic lighting (where applicable)

### 2.2.2 Dedicated Radio Mixed Zone Position

Broadcasters can book a permanent Radio Mixed Zone position at each competition venue.

Item Code	Item	Price per position, per venue
2.2.2.	Dedicated Radio Mixed Zone Position	1,250 €

Each Radio Mixed Zone position includes:

- Fenced area of 0.9m x 1.8m for a maximum of 2 people at the same time
- 1KVA domestic Power

## 2.3 Dedicated Unilateral Platforms

### 2.3.1 Dedicated Unilateral Camera Platform

A limited number of Camera Platforms for live unilateral production can be available at all the venues.



<i>Item Code</i>	<i>Item</i>	<i>Price per position, per venue</i>
2.3.1.	Dedicated Unilateral Camera Platform	2,600 €

Each Dedicated Unilateral Camera Platform includes:

- Approx. 1.8m x 1.8m platform, height as appropriate
- 1KVA technical Power

### 2.3.2 Dedicated Announce Platform

A limited number of Announce Platforms for live reports and presentations can be available at all the venues.

<i>Item Code</i>	<i>Item</i>	<i>Price per position, per venue</i>
2.3.2.	Dedicated Announce Platform	4,800 €

Each Dedicated Announce Platform includes:

- Approx. 2m x 3m platform, height as appropriate
- 3KVA technical Power & 3KVA domestic Power

### 2.3.3 TV Studio

A limited number of TV Studios can be made available to RHBs only in Palau Sant Jordi venue.

Studios are planned to be totally open, overlooking the swimming pool, with flooring where necessary and a demarcation area.

<i>Item Code</i>	<i>Item</i>	<i>Price per position</i>
2.3.3.	Open TV Studio	16,000 €

The service includes:

- Approx. 4m x 5m dedicated area, height as appropriate
- 5KVA technical Power & 5KVA domestic Power

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*Construction to build closed studios will only be considered if there is specific demand. RHBs interested should submit a layout with detailed specifications at the time of the booking for the LOC BCN2013 to study and provide quotation.*

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## 2.4 ENG Camera Positions

There will be several platforms in every venue to allocate ENG positions. These platforms will be distributed in different locations at the venue stands and around the field of play.

ENG on-board positions for Open Water Swimming competitions are currently under consideration. They would be made available to RHBs once approved.

All these positions are free of charge and will work on a 'first-come, first-served' basis.

<i>Item Code</i>	<i>Item</i>	<i>Price per position at all venues</i>
2.4.1.	ENG Camera Positions	Free of Charge

## 2.5 Cabins

Cabins for technical or office use are also offered to RHBs at the International TV Compound in the Palau Sant Jordi. Subject to space conditions and approval, they may also be allowed at the vicinity of the HB TV Compound in the other venues.

<i>Item Code</i>	<i>Item</i>	<i>Dimensions (LxWxH)</i>	<i>Price per Unit</i>
2.5.1.	Single cabin	6,2mx2,4mx2,5m	2,700 €
2.5.2.	Double cabin	6,2mx4,8mx2,5m	4,700 €

The services included in each cabin are:

- Raw space for the cabin at the Compound
- Cleaning, janitorial services and general security
- 1 A/C unit (3000 BTU's)
- 2 lighting panels
- 1 power breaker and 3 sockets

## 2.6 Isolated Feeds

Isolated Feeds, only in HD, can be made available at the IBC TDCs upon RHB's request.

Among these, 3 Beauty feeds in HDTV (1920H/1080V), no audio, are offered as isolated feeds to RHBs will be included in the VandA package. They will be located in the following city hotspots:

- Beauty Cam 1: Palau Sant Jordi venue (shot from Montjuic Olympic Stadium)
- Beauty Cam 2: Barcelona Port area (shot from the World Trade Centre building)

- Beauty Cam 3: Barcelona city (shot from Collserola Telecommunications Tower)

<i>Item Code</i>	<i>Item</i>	<i>Price per feed</i>
2.6.1.	Isolated Feed	TBD

## 2.7 Venue Cabling

RHBs are responsible for their own cabling from their dedicated areas within the venue to their OB Vans and SNGs, always under the HB supervision and following the demarcation points and appropriate cabling paths. However, if a RHB requests the HB to arrange their cabling at any venue, a price would be quoted.

<i>Item Code</i>	<i>Item</i>	<i>Price</i>
2.7.1.	Venue Cabling	POA

## 2.8 Tielines

Video and audio tielines between the Venue TOC and the commentary positions are limited but available. This cabling is responsibility of the HB.

<i>Item Code</i>	<i>Item</i>	<i>Price</i>
2.8.1	Video tieline HD	POA
2.8.2	Video tieline SD	POA
2.8.3	Audio tieline	POA

### 3. Furniture & Office Equipment

#### 3.1 Furniture

You can find below the list and prices for the furniture items that can be ordered. The rental period is 21 days. Other items might be available upon request.

Item Code	Item	Price per unit
3.1.1	Office Chair no arms	32 €
3.1.2	Office Chair with arms	35 €
3.1.3	Clerical chair with arms	55 €
3.1.4	Side chair	20 €
3.1.5	Executive chair	85 €
3.1.6	Arm chair	120 €
3.1.7	Sofa, 2 – seat	200 €
3.1.8	Sofa, 2 – seat	200 €
3.1.9	High chair	25 €
3.1.10	Coffee Table (round)	40 €
3.1.11	High table	50 €
3.1.12	Folding table 1800mm	65 €
3.1.13	Medium size table	50 €
3.1.14	Big size table	50 €
3.1.15	Desk - 1 drawer - 1500mm	65 €
3.1.16	Executive desk - 1800mm	120 €
3.1.17	3 drawer cabinet	55 €
3.1.18	Printer stand	40 €
3.1.19	Bookcase 900 mm	105 €
3.1.20	Storage cabinet 1000mm	120 €
3.1.21	Storage cabinet 1800mm	120 €

3.1.22	Shelf (4 shelves)	40 €
3.1.23	Coat stand	30 €
3.1.24	Waste paper bin	7 €

### 3.2 Additional items

The following additional items are offered as part of the furniture catalogue:

<i>Item Code</i>	<i>Item</i>	<i>Price per unit</i>
3.2.1	Small refrigerator - approx. 120 litre	80 €
3.2.2	Large refrigerator - approx. 220 litre	130 €
3.2.3	Store fridge	175 €
3.2.4	Table lamp	30 €
3.2.5	Desk Lamp	25 €
3.2.6	Coffee machine	70 €
3.2.7	Coffee pack	65 €
3.2.8	Whiteboard	45 €
3.2.9	Drinking fountain	125 €
3.2.10	Water pack	12 €
3.2.11	Safe box	300 €

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**NOTE:** A refundable deposit (100% of the rental fee) must be paid by the RHB to the LOC BCN2013 against loss and damage.

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### 3.3 Office Equipment

The following items are offered as part of the office equipment catalogue:

### 3.3.1 Computers

Item Code	Item	Price per unit
3.3.1.1	Desktop Computer 17" Monitor included	263 €
3.3.1.2	Laptop Computer	350 €

### 3.3.2 Multifunctional Printers

A Copier, Printer, Scanner and Fax machine, A4 and A3, on a cost per copy program. All consumables (except paper) are included.

#### 3.3.2.1 Multifunctional B/W Printers

Multifunctional B/W printers include 2.500 copies free of charge. Additional copies will be charged at 0.015€ each.

Item Code	Item	Price per unit
3.3.2.1.1.	Multifunctional B/W Printer 31ppm	750 €
3.3.2.1.2	Multifunctional B/W Printer 62ppm	1,350 €

#### 3.3.2.2 Multifunctional Colour Printers

Multifunctional Colour printers include 2.500 B/W copies and 500 Colour copies free of charge. Additional B/W copies will be charged at 0.015€ each, whilst additional Colour copies will be charged at 0.30€ each.

Item Code	Item	Price per unit
3.3.2.2.1.	Multifunctional Colour Printer 23ppm	800 €
3.3.2.2.2	Multifunctional Colour Printer 60ppm	1,700 €

### 3.3.3 Printers

A4 Printers on a cost per copy program. All consumables (except paper) are included. B/W copies will be charged at 0.038€ each, whilst colour copies will be charged at 0.45€ each.

<i>Item Code</i>	<i>Item</i>	<i>Price per unit</i>
3.3.3.1.	B/W Printer 15ppm	400 €
3.3.3.2	Colour Printer 33ppm	700 €

### 3.3.4 Consumables

<i>Item Code</i>	<i>Item</i>	<i>Price per unit</i>
3.3.4.1.	A4 Plain Paper Box (2,500 pages per box)	30 €
3.3.4.2.	A3 Plain Paper Box (1,500 pages per box)	70 €

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**NOTE: A refundable deposit (25% of the Office Equipment rental fee) must be paid by the RHB to the LOC BCN2013 against loss and damage.**

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## 4. Broadcast Services

### 4.1 VandA Package

#### 4.1.1. HD VandA Package

The Host Broadcaster will produce all live coverage in High Definition and following 50Hz specifications. The HDTV signal standard will be 1485 Mbps 1080i/50 SMPTE-292M, with up to eight embedded audio channels. The International Sound will be 5.1 surround sound for television and stereo for radio.

The HD VandA package (16:9 HD-SDI with embedded audio) will be made available to all RHBs at the IBC MCR, free of charge.

The package consists of:

- 4 competition feeds in HDTV (1920H/1080V):
  - Synchronised / Swimming (sport feed #1)
  - Water Polo (sport feed #2)
  - Diving (sport feed #3)
  - Open Water Swimming / High Diving (sport feed #4)

There will be eight embedded audio channels (resolution of 24 bits and 48 kHz of sampling rate) per feed:

- Channel 1 and 2 down mix Stereo Left and Right
- From channel 3 to channel 8 IS-TV 5.1 Surround Sound (L,R,C,Lfe,Ls,Rs)
- 1 AES (or one analogue pair) with the English Commentary Guide and TVIS Mono per feed (4xAES or 4xAnalog pair)
- 1 Spare
- 1 Analogue Black Burst
- 1 Time Code

Item Code	Item	Price
4.1.1.1.	HD VandA Package	Free of Charge

*Note: RHBs are responsible to book the necessary cabling between MCR / TDC and their IBC space / technical vehicles.*

#### 4.1.2 SD VandA Package

SD VandA Package can also be made available to RHBs upon specific request.



The package consists of:

- 4 competition feeds in SD (720H/567V):
  - Synchronised / Swimming (sport feed #1)
  - Water Polo (sport feed #2)
  - Diving (sport feed #3)
  - Open Water Swimming / High Diving (sport feed #4)

There will be four embedded audio channels (resolution of 24 bits and 48 kHz of sampling rate) per feed:

- Channel 1 and 2 IS-TV Left and Right
- Channel 3 – English Commentary Guide
- Channel 4 – TVIS Mono
- 1 Spare
- 1 Analogue Black Burst
- 1 Time Code

<i>Item Code</i>	<i>Item</i>	<i>Price</i>
4.1.2.1.	SD VandA Package	TBD

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*Note: RHBs are responsible to book the necessary cabling between MCR/ TDC and their IBC space / technical vehicles.*

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## 4.2 Radio International Sound Package

### 4.2.1 Radio International Sound Package

The Radio International Sound Package will be available to all RHBs at the IBC MCR. It will consist of:

MADI (AES10-64 channels), or analogue pairs upon request, transporting 4 audio channel sets per competition / feed with the following distribution:

- Channel 1 and 2 is IS-RA Left and Right (sport feed #1)
- Channel 3 – English Commentary Guide (sport feed #1)
- Channel 4 – Radio International Sound mono (sport feed #1)
- Channel 5 – 8 (sport feed #2)
- Channel 9 – 12 (sport feed #3)
- Channel 13 – 16 (sport feed #4)
- Channel 17 – 64 silence

Item Code	Item	Price
4.2.1.1.	Radio International Sound Package	Free of Charge

*Note: RHB is responsible to book cabling between MCR and RHB space.*

### 4.3 CATV distribution

A CATV system will be implemented and distributed in the IBC and the International TV Compound. The program list will be released by the start of the event.

Prices include the selected TV receiver with CATV signal and the necessary cabling until RHB's premises.

Item Code	Item	Price
4.3.1.	TV receiver – HD ready – 37"	400 €
4.3.2.	TV receiver – HD ready – 46"	700 €
4.3.3.	CATV socket	TBD
4.3.4.	CATV modulator	TBD

### 4.4 CIS (Commentator Information System)

#### 16.7.4.1 Commentator Information System (CIS) Workstation

The system provides real-time competition information and medal lists to RHBs at the IBC and the competition venues. The price includes delivery, installation, service and recovery.

CIS can be ordered in any defined location within the IBC, the International TV compound and the venues. Monitor and cabling are included in the price.

Item Code	Item	Basic rental Price per Unit
4.4.1.	Commentator Information System (CIS) Workstation	1,250 €

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*NOTE: A refundable deposit of 250 € per unit must be paid by the RHB to the LOC BCN2013 against loss and damage.*

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## **4.5 International Transmission**

### **4.5.1 Satellite Transmission**

The EBU is the main supplier of the international broadcast services through their gateway at the IBC. Broadcasters can book their transmission circuits directly with the EBU Services or use different satellite segments to uplink from their own SNG vans at the Satellite Farm.

The Booking office will be a common space for the HB, the LOC and the EBU Coordinators working together to assist RHBs needs and to process their orders.

## 5. Bookable Services (IBC & Venues)

### 5.1 IBC Bookable Facilities

#### 5.1.1. IBC Tape Play-out / Injection

Tape play-out is available from IBC MCR in XDCAM HD format. Upon request, HDCAM, IMX and P2 formats can also be available.

Broadcasters may provide their own equipment; however, a test must be arranged in advance of the booking to check and confirm compatibility.

Service and facility will be available from four days before the Opening Ceremony to one day after the Closing Ceremony.

##### 5.1.1.1 IBC Tape play-out without Up-link

Item Code	Item	Price per 10 minutes
5.1.1.1.	IBC Tape play-out without Up-link	TBD

Service includes:

- Tape play-out from IBC MCR
- Technical coordination

##### 5.1.1.2 Tape play-out with Uplink

Item Code	Item	Price per 10 minutes
5.1.1.2.	IBC Tape play-out with Up-link	TBD

Service includes:

- Tape play-out + local optical fiber to earth station + uplink
- Technical coordination

*Note: RHB is responsible to book satellite space segment and inform HB one day in advance of the play-out.*

### 5.1.2 Tape Recording

Tape recording of International Feed with graphics is available to RHB at the IBC MCR. Available format is XDCAM HD.

<i>Item Code</i>	<i>Item</i>	<i>Price per hour</i>
5.1.2.1.	Tape recording of International Feed	TBD
5.1.2.2.	Tape stock	TBD

### 5.1.3 Bookable Off-tube Facility

HB will offer RHBs off tube facilities within the IBC.

<i>Item Code</i>	<i>Item</i>	<i>Price per session</i>
5.1.3.1.	Bookable Off-tube	TBD

Service includes:

- One table and two seats
- One commentary unit and two headsets
- One video monitor
- CIS
- Desk lamp
- Connectivity to CCR

## 5.2 Venue Bookable Facilities

### 5.2.1 Pre & Post Unilateral Transmissions (HD)

10-minute bookable time windows will be available before and after the competition feed for live camera interviews at a designated venue location. These Pre & Post Unilaterals will be produced and transmitted to the IBC MCR in HD only.

Bookings are required to be submitted to the HB Booking Office the day before the service. The international slot must be booked separately using RHBs own means or through the EBU.

<i>Item Code</i>	<i>Item</i>	<i>Price per session</i>
5.2.1.1.	Pre & Post Unilateral Transmissions (HD)	TBD

Service includes:

- HB camera and operator
- Microphone and earpiece
- Basic lighting when necessary
- VandA to the IBC MCR
- Coordination through the HB broadcast liaison officer

### 5.2.2 Bookable Announce Platform

A bookable announce platform run by the HB at every venue will be available in 10-minute windows.

<i>Item Code</i>	<i>Item</i>	<i>Price per 10 minutes</i>
5.2.2.1.	Bookable Announce Platform	TBD

Service includes:

- HB camera and operator
- Microphone and earpiece
- Basic lighting when necessary
- VandA to the IBC MCR
- Coordination through the HB broadcast liaison officer

### 5.2.3 Bookable TV Mixed Zone

A bookable TV mixed zone position run by the HB will be offered to RHB's use in a good location within the mixed zone area at every venue.

<i>Item Code</i>	<i>Item</i>	<i>Price per session</i>
5.2.3.1.	Bookable TV Mixed Zone	TBD

## 6. Telecommunications

### 6.1 Fixed Telephone Services

POTS standard telephone lines and 128K (2B+D) ISDN lines are available at each venue and at the IBC.

- Calling costs are subject to a tariff plan
- A usage deposit will be taken to cover Championships-time call charges
- Refunds, if any, will be made after the end of the Championships
- Calling costs exceeding the deposit, if any, will be invoiced after the end of the Championship

#### 6.1.1 POTS line

<i>Item Code</i>	<i>Item</i>	<i>Basic rental price</i>	<i>Usage deposit</i>
6.1.1.1.	POTS (Analogue) line with handset	450 €	1,000 €

#### 6.1.2 ISDN line

<i>Item Code</i>	<i>Item</i>	<i>Basic rental price</i>	<i>Usage deposit</i>
6.1.2.1.	ISDN line (EU) with handset	450 €	1,000 €

### 6.2 Mobile Telecommunication Services

Handsets differ from the Basic Mobile Phone to SmartPhone Models, both including SMS text messaging, MMS Multimedia Messaging, Camera, Video and MP3.

Basic Mobile Phones (6.2.1) include hard keys for ease of use.

SmartPhones incorporate touch technology and feature mobile browsing and Internet access.

- Unused minutes and MB's are not refundable
- A usage deposit will be taken to cover Championships-time call charges
- Refunds, if any, will be made after the end of the Championships
- Calling costs exceeding the deposit, if any, will be invoiced after the end of the Championships

Item Code	Item	Price	Usage deposit
6.2.1	Basic Mobile Phone Handset on Prepaid Voice Plan, including 300 voice minutes per month to any Spanish operator	700 €  Voice usage beyond the 300 minutes limit will be charged at 0.16 € per minute	1,000 €
6.2.2	SmartPhone Handset on Prepaid Voice and Data Plan, including 300 voice minutes per month to any Spanish operator and 500MB of full speed mobile Internet access per month. Once the data connection limit is reached, the connection speed is decreased to 128Kbps	900 €  Voice usage beyond the 300 minutes limit will be charged at 0.18 € per minute	1,000 €

### 6.3 Internet Access

The Dedicated Internet Access service provides a choice of three dedicated connection speeds: 10Mbps asymmetrical and 2 or 10Mbps with symmetrical throughput. Service is delivered via a dedicated port at the location indicated on the order.

#### 6.3.1 Asymmetric line

Item Code	Item	Price per the whole event
6.3.1.1.	ADSL line 10 Mbps download / 820Kbps Upload	1,100 €

Service includes:

- Internet Access over ADSL line
- 1 Router



6.3.2 Symmetric line

<i>Item Code</i>	<i>Item</i>	<i>Price per the whole event</i>
6.3.2.1.	Symmetric line, 2 Mbps download	TBD
6.3.2.2.	Symmetric line, 10 Mbps download	TBD

Service includes:

- Internet access over symmetric line
- 1 Router

## 7. Additional Broadcast Services

### 7.1 Video server

The Local Organizing Committee BCN2013 is providing a central Video Server where all the produced International TV signals, from all the venues, will be ingested together with the related metadata. RHBs that book this service will be able to search and access relevant footage of all the Championships in a very simple and easy way.

The associated metadata included in the system will be very helpful for RHBs, as it will be introduced by specialized personnel in order to provide fast access to all content in the Video Server system and to allow an "intelligent search" through appropriate key words (goal, country, athlete, record...).

The system will record the different international TV signals produced during the championships in HD and will ingest a data feed, which will enrich the images, allowing an easy search through appropriate key words. The images will be available during the entire championships; provided they have been booked in advanced images will be available in HD.

There are three different bookable options available for accessing content from the Central Video Server and the related metadata. It is important to note that the RHBs will need to provide the necessary desk space and power outlets to power the locally available equipment that correspond to the specific booked option (see diagrams that follow).

#### Option 1: Browsing, Play out (HD) & Non Linear Editing

- Access to browse all multilateral content ingested in the Main Video Archive Server
- Base band HD Play Out functionality
- Non Linear Edit capabilities built in

#### Option 2: Browsing and File Transfer

- Access to browse all multilateral content ingested in the Video Archive Server
- File transfer to the RHB local server at IBC

#### Option 3: Remote Access to Video Archive Server

- Remote Access to browse all multilateral content ingested in the Main Video Archive Server at IBC, from any part in the world
  - High resolution File Transfer to remote location
- Access to these contents will be possible through an EVS and IP Director

system and will be available to all RHBs that subscribe to the service.

Remote access to video server requires hiring of dedicated internet access (tbd)

## 7.2 Video on Demand

The Local Organizing Committee BCN2013 is willing to offer RHBs a highly innovative Video on Demand platform, in order to satisfy their demands of contents designed for Internet and for new multimedia platforms, such as smartphones, iPads, tablets, SmartTV...

The service is designed as a bespoke solution, customize for each broadcaster interested in the project, at a very competitive rate. The possibility of developing a single project to be shared among several broadcasters will significantly reduce the costs of this service.

The Video on Demand service includes:

- Technical tagging + Swiss Time
- Video & Audio capture + synchronized tagging
- Transcoding at a lower resolution
- Uploading to a website platform customized with the look and feel of every single broadcaster joining the project



The Video on Demand system will allow RHBs to offer all competitions in an offline format, together with an appropriate viewer and a browser that will help to understand the relevant sport, allowing different browsing possibilities

through key words including during the competition.

Water Polo example:

- View all goals in a given session (highlights)
- View all games in a given session
- View all games of a given team
- View all exclusions in a given session
- etc.



The Video on Demand service will be available in any multimedia platform (smartphones, iPads, tablets, SmartTV...) at any moment during the day and geoblocked to the territory of the broadcaster holding the rights and having acquired the service, under the domain decided by each broadcaster and hosted in a CDN platform.

The Video on Demand service will be developed by Gnuine (the company that has designed and currently manages the webs sites of F.C. Barcelona and the Spanish National Basketball League) and supervised by RTVE. The final price of the service will depend on the number of RHBs eventually joining the Project, with significant reductions from the fifth RHB. More complex developments can also be considered under the request of any RHB interested.

## 8. Terms and Conditions

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### General Sales Conditions

The Rate Card does not constitute a binding offer for the Services. A binding contract will only be formed between the RHB and the HB once the RHB has confirmed the Official Booking Application. The RHB must comply with the General Sales Conditions in order to access services.

Only authorized Radio and Television RHBs are permitted to make bookings for facilities and services described in this Rate Card. Request are to be made through the Official Booking Application Website or on Official Booking Forms and submitted to the HB Booking Office by the designated Team Leader or Authorized Signatory of the RHB. For any service or facility not listed in the Official Booking Application, Team Leaders are asked to submit a request in writing to the HB Booking Office for consideration as to feasibility and price.

- All rates are in €, excluding VAT (currently 21%).
- Unless specified, rates are meant for the duration of the event: 19th July to 4th August (17 days).
- Certain infrastructures and service items are supplied by the LOC BCN2013. However, they are booked and coordinated through the HB (RTVE).
- The prices for certain services may be revised if there is a significant change in market price and/or fluctuation in exchange rate.
- Detailed specifications on the Rate Card items will be available upon request.

### Booking Deadline

Deadline for all the services included in this Rate Card is 15th March 2013, except for the Video Server and Video on Demand services, whose deadline is 15th January 2013.

- The booking orders submitted during the Normal Booking Period, from 24th November 2012 to 15th March 2013, will be charged according to the Rate Card prices. The Rate Card prices and availability of the listed services and facilities cannot be guaranteed after the Normal Booking Period.
- An additional 15% fee will apply to the booking orders received during the Late Booking Period, from 16th March 2013 to 15th June 2013.
- An additional 25% fee will apply to the booking orders received after the Late Booking Period (exclusive of orders for those services bookable during the Championships).

### Payment Schedule

60% order payment must be paid before 15th April, 2013.

The remaining 40% order payment must be paid by 30th June, 2013

The final invoice (including additional orders placed onsite during the Championships) will be sent after the event.

### Damage Deposits

The RHBs must pay a deposit for certain facilities, as stated in the present Rate Card. The deposit cover loss or damage for facilities rented.

100% deposit must be paid together with the rental fees.

The refund, if any, will be made by 30th September, 2013.

### Changes to Original orders

Any additions or modifications to original requests must be submitted in writing to the HB by the RHB. Once received, these will be studied on a case-by-case basis without the guarantee of approval or availability. If modifications or changes to original requests are approved, additional charges may apply.

### Cancellations

Any cancellation of a confirmed booking must be submitted in writing to the HB by the RHB. Any service cancelled after the 16th April will be studied on a case-by-case basis and a cancellation fee ranging from 50% to 100% could be applied, depending on the type of service, provision already made and costs derived from the provider.

### Bookable Services and Facilities

During the Championships, RHBs will be required to appoint an authorized representative to submit any orders for Bookable Services and Facilities to the HB, based at the IBC. This representative will be required to have the Team Leader signature at any order form.

### Bank Information and Payment Instructions

RTVE, the Host Broadcaster of 15th FINA World Championships, Barcelona 2013, has appointed the "Real Federación Española de Natación" as its representative payee. The payment and refund terms set by Real Federación Española de Natación (hereinafter referred to as RFEN) are listed as below.

- Payment for service order should be made by wire transfer in €.
- As per the payment schedule (already mentioned above), 60% of the total

order payment and, if any, 100% of the deposit amount must be paid by 15th April, 2013. The booking orders will not be activated but remain suspended until the required payment occurs. The outstanding 40% of the total order payment must be paid by 15th June, 2013 (excluding additional orders place on site).

Please note that all bank charges incurred by wire transfer or any taxes will be at the broadcasters' expense and are excluded from the total of the invoice. To avoid any delay, please make sure the amount received by RFEN covers the total amount due.

The organization name and the pro-forma invoice number must be quoted for the reason in the wire transfer to avoid any delay in payment processing. Besides, "15th FINA World Championships, Barcelona 2013" must be quoted for the postscript in the wire transfer.

**A/C Holders Name**

**A/C No.**

**Bank**

**Swift Code**

**Reason      Organization Name**

Pro-forma      Invoice Number

Postscript      15th FINA World Championships, Barcelona 2013

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# BCN 2013 BCN 2013

## **BARCELONA 2013 15<sup>th</sup> FINA WORLD CHAMPIONSHIPS**

15<sup>os</sup> FINA CAMPEONATOS  
DEL MUNDO DE NATACIÓN

15<sup>es</sup> FINA CAMPIONATS  
DEL MON DE NATACIÓ

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## 16. ACKNOWLEDGEMENTS

rtve







## WORLD BROADCASTERS MEETING / **TV HANDBOOK**

## 16. ACKNOWLEDGEMENTS

This manual has been published by the Barcelona 2013 Organising Committee and the Host Broadcaster of the 15th FINA World Championships Barcelona 2013

The information included was correct at the time of Printing. However, specific items are pending approval or to be finalized due to ongoing negotiations. Where this situation applies a clear indication has been added.

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