

IAC 2024
Budapest Proposal

HUNGARIAN PROPOSAL FOR HOSTING THE 75TH INTERNATIONAL ASTRONAUTICAL CONGRESS IN BUDAPEST, HUNGARY IN 2024

Space – Tradition and New Ambitions

September 30 – October 4, 2024

EXECUTIVE SUMMARY PRESENTATION
UPDATED IN SEPTEMBER



GOVERNMENTAL SUPPORT



IAC 2024 **Budapest**
Candidate City



“Our actions and results clearly show our commitment for Hungary to play its part more than ever before in the peaceful use of outer space. This is not only in our foreign policy, but also in our economic interest.”

Péter Szijjártó

Minister of Foreign Affairs and Trade



AN IAC FOR THE REGION



IAC 2024 **Budapest**
Candidate City

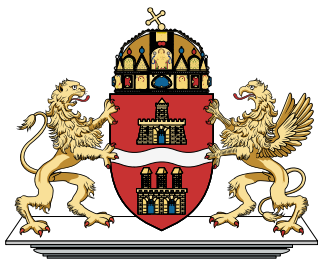


WHY BUDAPEST?



IAC 2024 **Budapest**
Candidate City

- Located in the heart of Central and Eastern Europe
- The location has easy access from all over the world, including low cost airlines
- The selected venue has all of the necessary requirements satisfied
- Budapest has a variety of accommodations from grand, five star hotels, to Airbnb lodging
- Hungary and Budapest offer extensive opportunities for touristic activities, both before and after the IAC, as well as for accompanying family members during the congress
- Budapest – Spice of Europe, <https://spiceofeurope.com/>



“The Municipality of Budapest attaches great importance to having the capital city of Hungary become a well-known and recognized location of the scientific world. It will be a particularly great honor for us to welcome this Congress in our capital.”

Gergely Karácsony, Mayor of Budapest



IN THE HEART OF CENTRAL AND EASTERN EUROPE



IAC 2024 **Budapest**
Candidate City



A CONGRESS WITH EASY ACCESS



IAC 2024 **Budapest**
Candidate City

- Budapest is easily accessible by air in 2–3 hours from most major cities in Europe, 5–6 hours from the Middle East and about 9 hours from the East Coast of the USA
- Free public transportation pass during the conference week
- Free shuttle from the nearest metro station to the conference

IN LATE SEPTEMBER/EARLY OCTOBER...



IAC 2024 **Budapest**
Candidate City



With warm,
sunny days and
cool evenings,
Autumn in
Hungary is
glorious.

GOVERNMENTAL SUPPORT



IAC 2024 **Budapest**
Candidate City

"I strongly believe that the prestigious International Astronautical Congress would find a superb host country in Hungary. Therefore, on behalf of the Ministry of Foreign Affairs and Trade, responsible for space research and space activities in the governmental structure, I wholeheartedly support the bid."



Dr. Orsolya Ferencz

Ministerial Commissioner for Space Activities



VARIETY OF THE HUNGARIAN SPACE SECTOR



IAC 2024 **Budapest**
Candidate City

Beginning with the successful Lunar Radar experiment of Hungarian scientist Zoltán Bay in 1946, the history of space research in Hungary spans 75 years.



Today, space activity in Hungary is carried out by several research institutes and university groups, as well as many small and medium sized private sector companies.

This proposal is supported by the entire Hungarian space community.

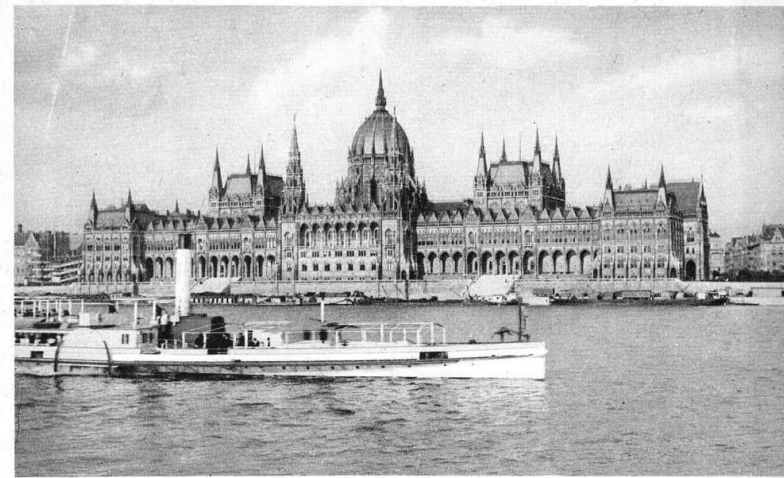
HUNGARY AND IAF



IAC 2024 **Budapest**
Candidate City

„My first activity was to prepare the 1983 Congress in Budapest, Hungary. Fortunately, Dr. Iván Almár, Vice-President of IAF and President of the Hungarian Astronautical Society made a marvellous job and the organisation during the Congress in Budapest was perfect.”

Roger Chevalier
President of IAF (1983-1984)*



Budapest.

Országház. — Parlement.



Budapest.

Erzsébet-híd. — Pont d'Élisabeth.

WHY BUDAPEST?



IAC 2024 **Budapest**
Candidate City

- **Long-standing tradition with IAF**
 - Since 1959 MANT has been a proud member of the IAF
- **It's time for a return visit**
 - In 1983 MANT hosted the 34th IAF Congress in Budapest
 - There has not been an IAC in the region since 2010
- **Broad-based support from the national and local governments and the entire Hungarian space community**
- **An International Astronautical Congress for the region**
- **Budapest and the MANT proposal have received the support of IAF Members in surrounding countries**
- **The MANT proposal for IAC 2024 is based on a proven heritage of previous conferences and exhibitions and a thorough appreciation for the IAC complexity and requirements**

OUR CONSORTIA



IAC 2024 **Budapest**
Candidate City



congressline

CongressLine Ltd.

PCO, experience with large international events (10000+ participants)



MANT

Hungarian Astronautical Society (MANT)

member of IAF since 1959



hungexpo

HUNGEXPO Budapest Congress and Exhibition Center

main venue, experience with large international exhibitions and congresses

OUR TEAM



IAC 2024 **Budapest**
Candidate City

LOCAL ORGANIZING COMMITTEE



Chaired by László Bacsárdi

Vice president of MANT

IAF YSL 2017

member of IAF SCAN, SEOC, SSC, WD/YPP, IAC IPC

corresponding member of IAA

alumni member of SGAC

event manager, 1st European Space Generation Workshop



ADVISORY BOARD



Chaired by Iván Almár

Honorary president of MANT

chair of LOC of IAF Congress 1983

IAC IPC member

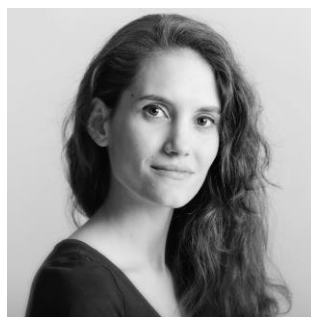
IAA honorary member



MEMBERS OF OUR LOC



IAC 2024 **Budapest**
Candidate City



MEMBERS OF OUR LOC



IAC 2024 **Budapest**
Candidate City

Chair: Dr. László Bacsárdi (*Hungarian Astronautical Society*)

Members:

Ms. Anna Baranyai (*Remred Kft.*)

Dr. Veronika Barta (*Institute of Earth Physics and Space Science*)

Dr. Balázs Bartóki-Gönczy (*National University of Public Service*)

Ms. Ildikó Benyhe (*Congressline Kft.*)

Ms. Zsófia Bodó (*Hungarian Astronautical Society*)

Dr. Sándor Frey (*Research Centre for Astronomy and Earth Sciences*)

Ms. Bea Golovanova (*Congressline Kft.*)

Dr. Attila Hirn (*Centre for Energy Research*)

Ms. Anna Medvegy (*Hungarian Astronautical Society*)

Ms. Dorottya Milánkovich (*C3S Ltd.*)

Ms. Ágnes Opitzer (*Hungexpo Zrt.*)

Ms. Melinda Papp-Vid (*Congressline Kft.*)

Ms. Anna Krisztina Székely (*Hungarian Astronautical Society*)

Mr. Balázs Szűcs (*Hungexpo Zrt.*)

Ms. Sandra Vámos (*Congressline Kft.*)

Mr. Zoltán Révhegyi (*Congressline Kft.*)

Ms. Valentina Töreki (*Ministry of Foreign Affairs and Trade*)

Mr. István Zágoni (*Dark Cube Consulting Kft.*)

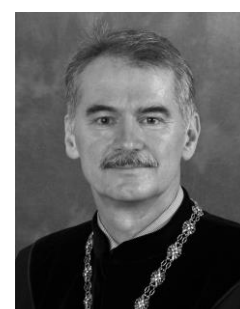
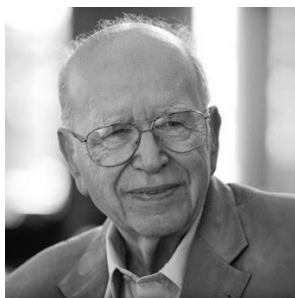
Legal advisor:

Dr. Ferenc Darvas (*Sárhegyi&partners Law Firm*)

MEMBERS OF OUR ADVISORY BOARD



IAC 2024 **Budapest**
Candidate City



MEMBERS OF OUR ADVISORY BOARD



IAC 2024 **Budapest**
Candidate City

Chair:

Prof. Iván Almár (*honorary president, Hungarian Astronautical Society, LOC Chair IAF Congress 1983*)

Members:

Dr. Tibor Balint (*NASA Jet Propulsion Laboratory, USA*)

Prof. Slobodan Danko Bosanac (*president, Adriatic Aerospace Association, Croatia*)

Tamás Bárczy (*chair, HUNSPACE Hungarian Space Cluster*)

Dr. Előd Both (*former chair of UN COPOUS Scientific and Technical Subcommittee*)

Bertalan Farkas (*Hungarian cosmonaut*)

Dr. Orsolya Ferencz (*Ministerial Commissioner for Space Research, Ministry of Foreign Affairs and Trade*)

Dr. Tamás Haidegger (*director of the University Research, Innovation and Service Center, University of Óbuda*)

Prof. János Józsa (*former rector, Budapest University of Technology and Economics*)

Joe Magyar (*CEO, MarketDev Agency, Canada*)

Prof. Norbert Kis (*vice rector, National University of Public Service*)

Dr. Kálmán Kovács (*president, Hungarian Astronautical Society*)

Prof. János Lichtenberger (*professor, Eötvös Loránd University*)

Dr. András Sik (*director, Lechner Non-profit Ltd.*)

Dr. István Sárhegyi (*CEO, New Space Industries Zrt.*)

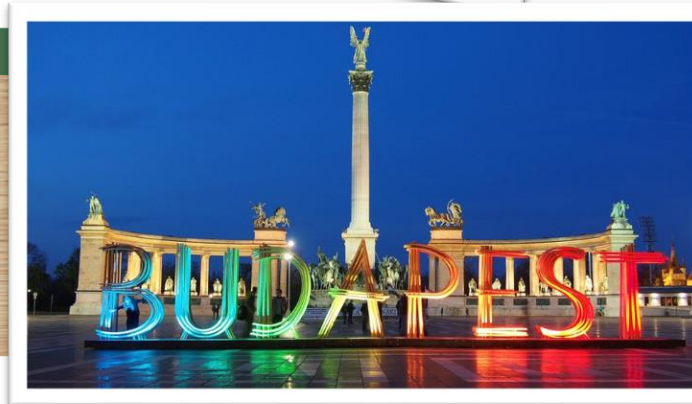
János Solymosi (*president, Hungarian Aerospace Technology Platform*)

Christopher Vasko (*European Space Agency, former chair of SGAC*)

BUDAPEST – SPICE OF EUROPE



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Candidate City



THE MAIN VENUE



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Candidate City



IAC 2024
MAIN
CONGRESS
VENUE

HUNGEXPO Budapest

Congress and Exhibition Centre

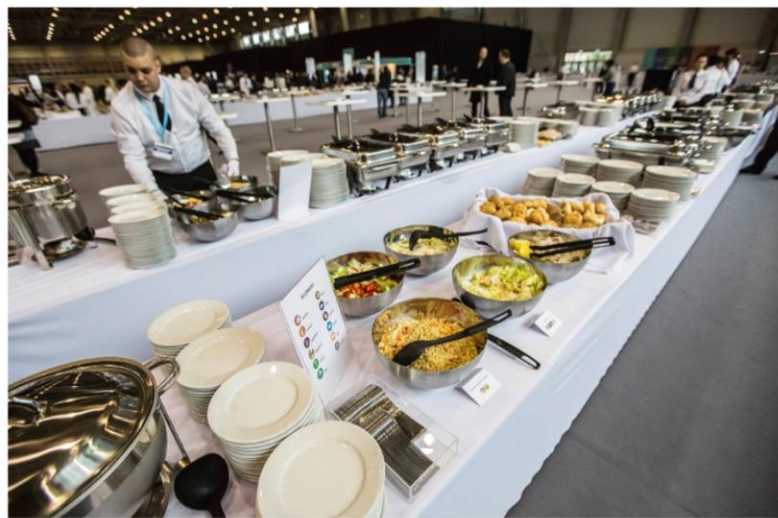


IAC 2024 **Budapest**
Candidate City



HUNGEXPO Budapest

Congress and Exhibition Centre



HUNGEXPO Budapest

Congress and Exhibition Centre



OPENING CEREMONY



IAC 2024 **Budapest**
Candidate City



HUNGARIAN NIGHT



IAC 2024 **Budapest**
Candidate City

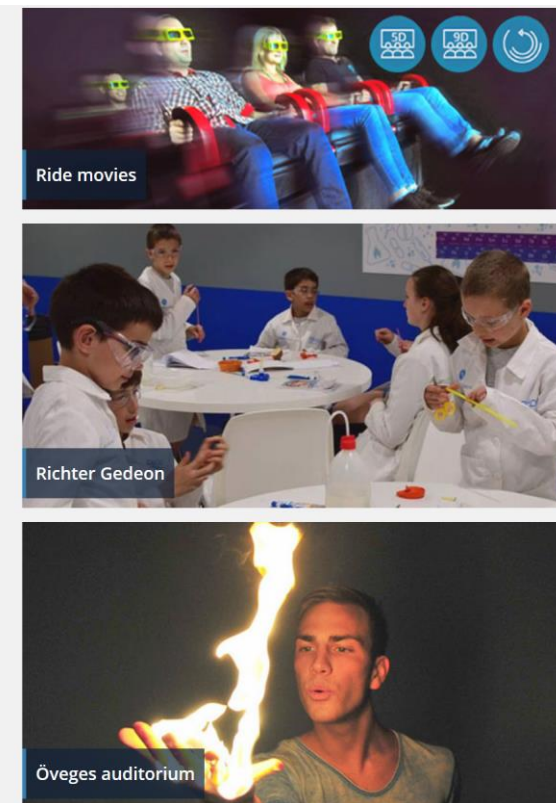
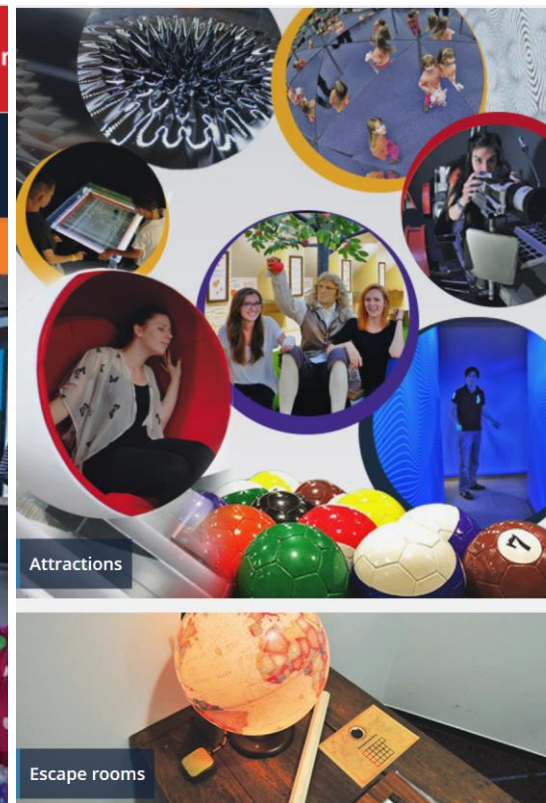


SCIENCE NIGHT



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Candidate City

Csopa is a scientific entertainment center on 5000 sq metres with more than 250 games, an auditorium and a lab, 3 ride-movie theatres, 4 escape rooms, event halls, offering cocktails from laboratory flasks, billiards soccer courts, special types of table soccer and 27 interactive tables.



SPACE SPA PARTY



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On Thursday, we will organize a Space Spa Party for students and young professionals in Széchenyi Spa. It is located in the city park of Budapest is supplied by two thermal water sources with a temperature of 23°C to 38°C. Széchenyi Spa Baths is one of the best and largest spa baths in Europe with its 15 indoor baths and 3 grand outdoor pools.

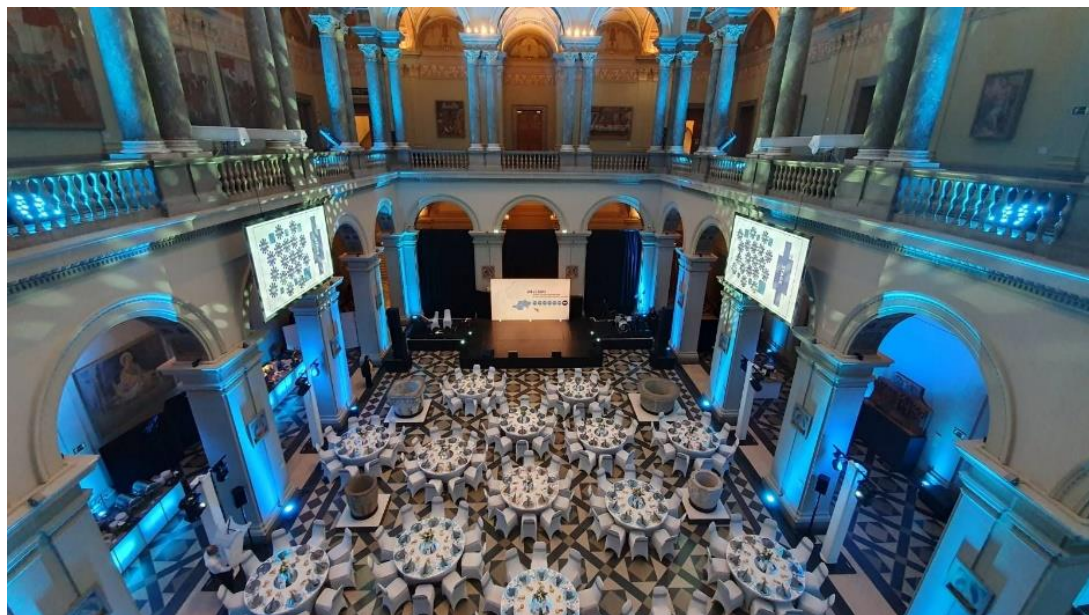


GALA DINNER OPTIONS



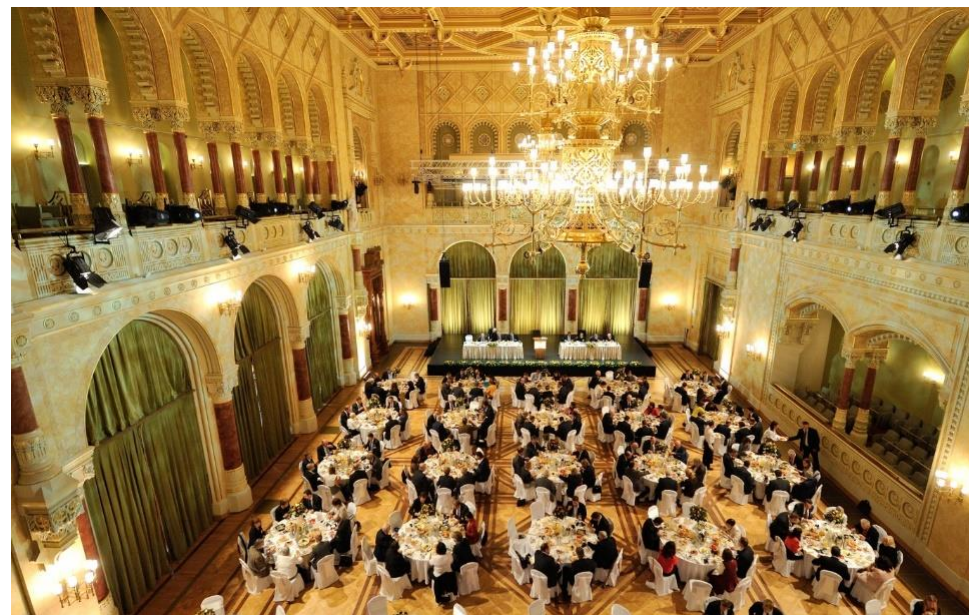
IAC 2024 **Budapest**
Candidate City

1.



Museum of Fine Arts

2.



Pesti Vigadó

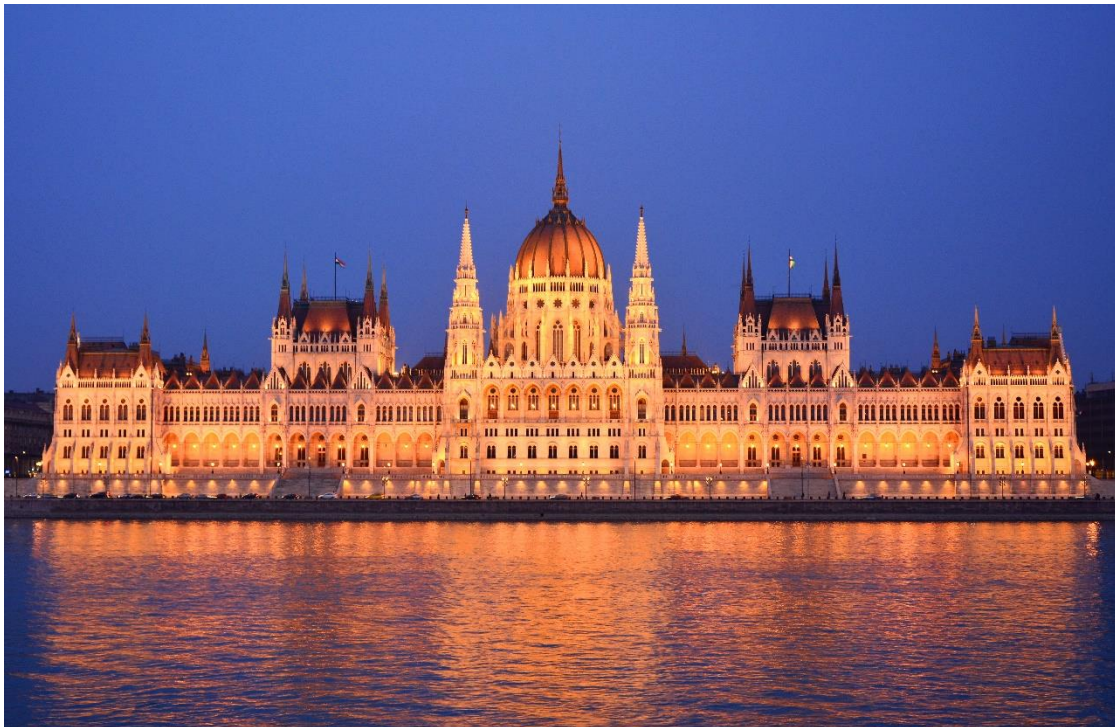
INTERNATIONAL MEETING FOR MEMBERS OF PARLIAMENTS



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The International Meeting for Members of Parliaments is planned to be held in the Upper House Chamber of the iconic Hungarian Parliament Building. Participants will be welcomed by governmental representatives.



IAA ACADEMY DAY



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The IAA meetings and the IAA Academy Day will be organized at HUNGEXPO. In our LOC, there is a dedicated member for cooperating with IAA to ensure that all related requirements are fulfilled.

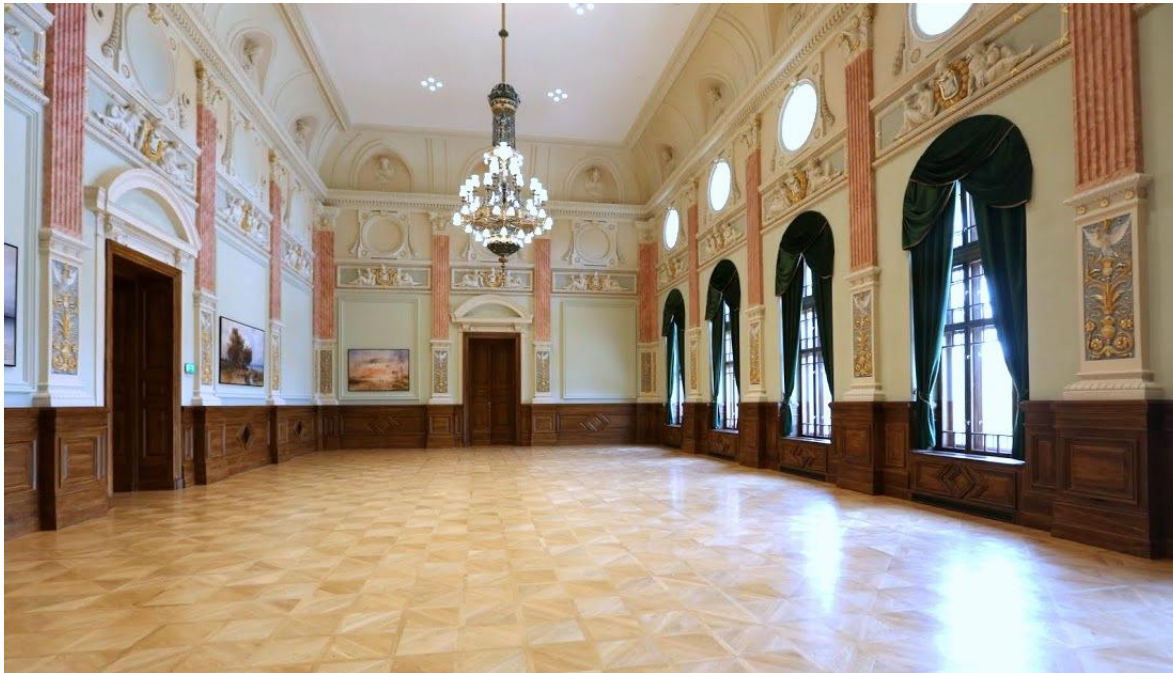
IISL MOOT COURT FINAL



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The IISL Manfred Lachs Moot Court final is planned to be organized in the main building of the University of Public Service of Hungary (UPS). UPS is the national point of contact of the ESA European Center for Space Law. UPS has founded in 2020 the Outer Space and Social Sciences Research Center. We have a dedicated LOC member for cooperating with IISL.



SPACE GENERATION CONGRESS



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The Space Generation Congress 2024 could be organized at the premises of the Budapest University of Technology and Economics, in the same campus where SGAC's 1st European Space Generation Workshop was held in 2016. SGC Welcome reception can be held in an all-you-can-eat type Hungarian restaurant (drinks included), while SGC Gala Dinner can be organized onboard of Europe ship as a 3-hour-long cruise on River Danube.



FURTHER SIDE EVENTS



IAC 2024 **Budapest**
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IAF Host Summit

IAF/UN Workshop

**IPMC Young Professionals
Workshop**

and other side events
will be organized
at HUNGEXPO

HOTEL CAPACITY



IAC 2024 **Budapest**
Candidate City

We reserved 4600 rooms for IAC participants in hotels and hostels.

HOTEL RATING(*)	HOTEL CAPACITY (ROOMS)	RESERVED ROOMS FOR IAC
5 star hotels	2794	1540
4 star hotels	6798	2425
3 star hotels	1562	455
hostels	498	180
TOTAL:	11652 rooms	4600 rooms

Further options

300+
accommodations



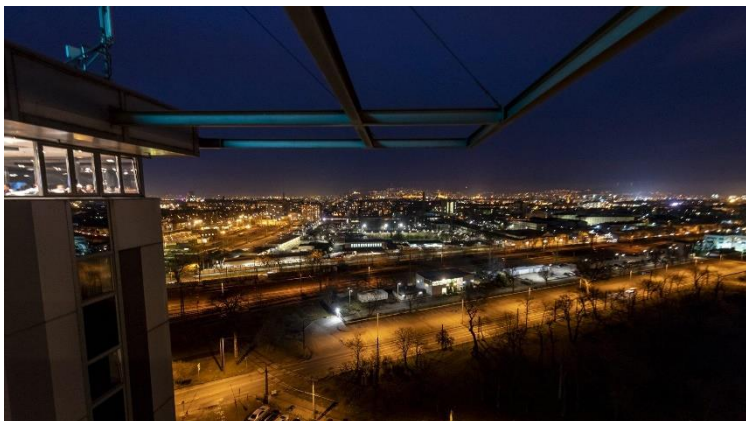
1200+
accommodations

Booking.com

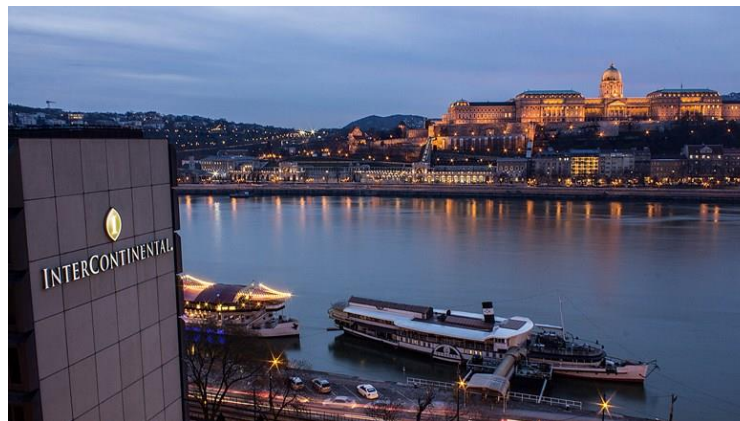
CONGRESS HOTELS



IAC 2024 **Budapest**
Candidate City



View from the Expo Hotel



Hotel Intercontinental *****



Danubius Hotel Arena ****



Expo Hotel ****



Mercure Budapest Korona ****

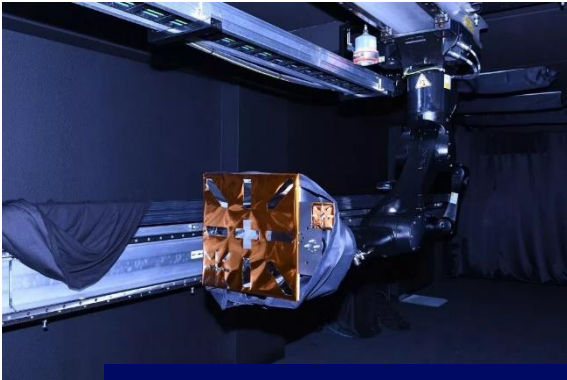


Danubius Hotel Erzsébet **

TECHNICAL TOURS (1)



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Material science



Space communication



Ground station



Small satellites development



Space dosimetry

TECHNICAL TOURS (2)



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Candidate City



Mars analogue mission



Stargazing with wine tasting



Space astronomy



Day trip to the UN (Vienna)

(Not only) for accompanying persons



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Wine Tour & Dinner in Etyek



Castle District and Hospital in the Rock



Sightseeing Tour with lunch at the Grand Market Hall



Evening Danube Cruise



Programs for every generation



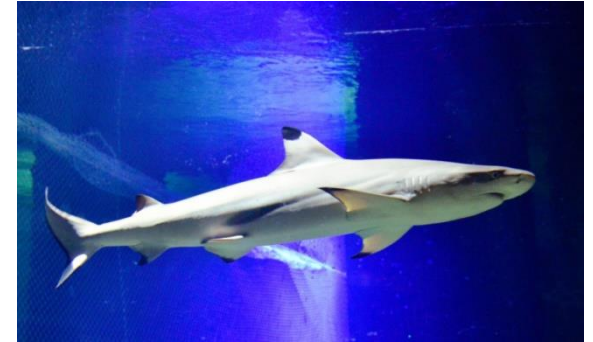
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Candidate City



Széchenyi Bath



Budapest Zoo behind the Scenes



Hungarian Cooking Course at Chefparade



Pub Crawl



PRE/POST TOURS IN HUNGARY



IAC 2024 **Budapest**
Candidate City



Lake Balaton and Balaton Uplands National Park

Hollókő UNESCO site and Eger Castle



Danube Bend, Visegrád, Szentendre – Artists' Village

Hungarian Puszta and „Calvinist Rome”

THE VENUE IN DETAILS...



IAC 2024 **Budapest**
Candidate City



free public transportation pass

metro stop



PILLANGÓ UTCA



BUS 10

ÖRS VEZÉR TERE

HUNGEXPO

free shuttle

ALBERTIRSAI ÚT

EASY ACCESS

IAC 2024

Arriving from the city:

20-25 min. with public transport

10-15 min. by taxi or shuttle

HUNGEXPO – BUDAPEST

BŐVÍTÉSI TERV / EXPANSION PLAN 2021



IAC 2024 **Budapest**
Candidate City

- Jegyértékesítés
Tickets
- Étterem, büfé
Restaurant
- WC / Toilet
- Biztonsági szolgálat
Security Service
- Parkoló / Parking
- Regisztráció / Registration



HALL H PLENARY HALL



IAC 2024 Budapest
Candidate City



HALL H PLENARY HALL

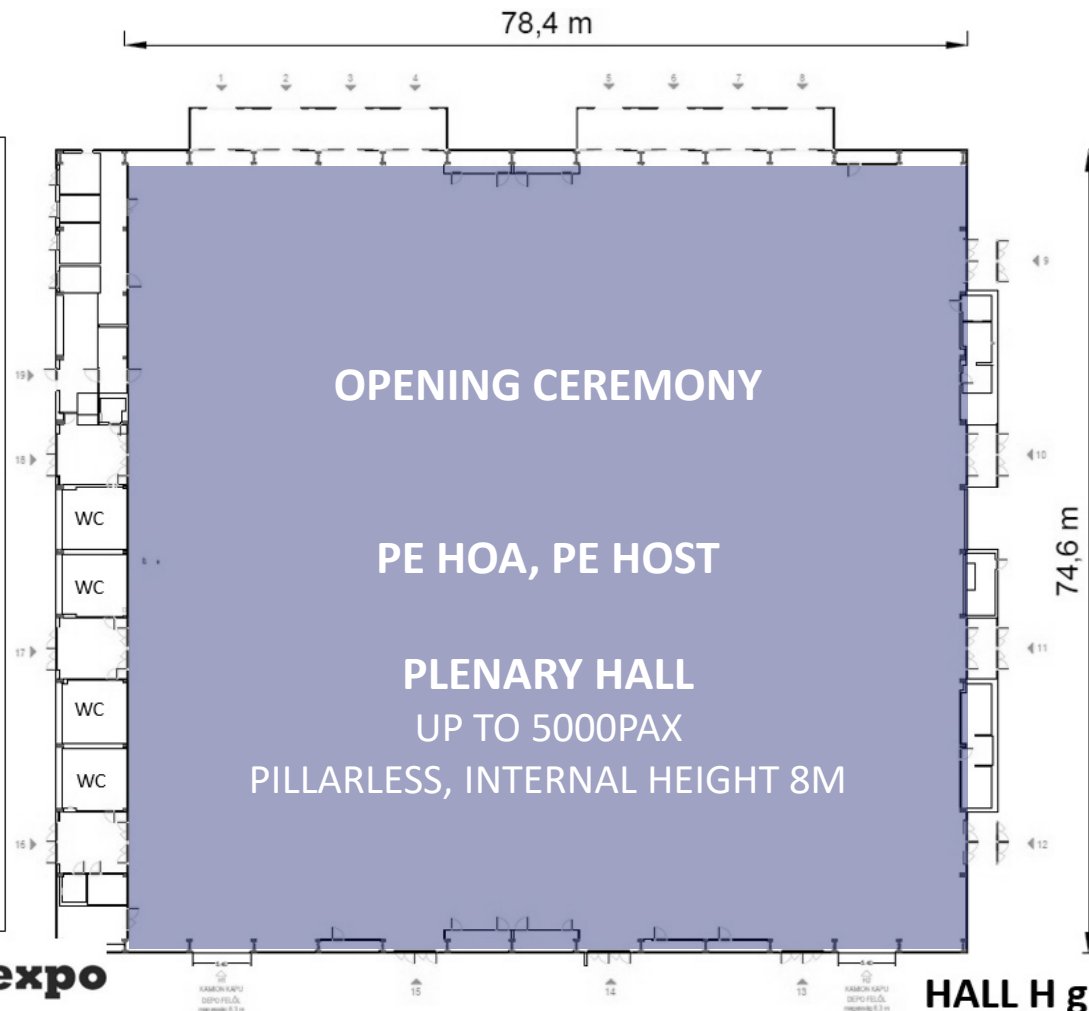
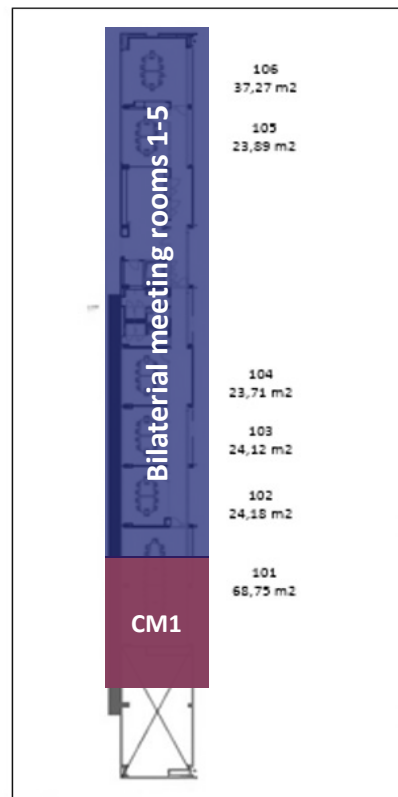
GROUND FLOOR



IAC 2024 **Budapest**
Candidate City

Space: 5.686 sqm
Internal height: 8 m

HALL H gallery



MONDAY

HALL H ground floor



hungexpo

HALL H PLENARY HALL

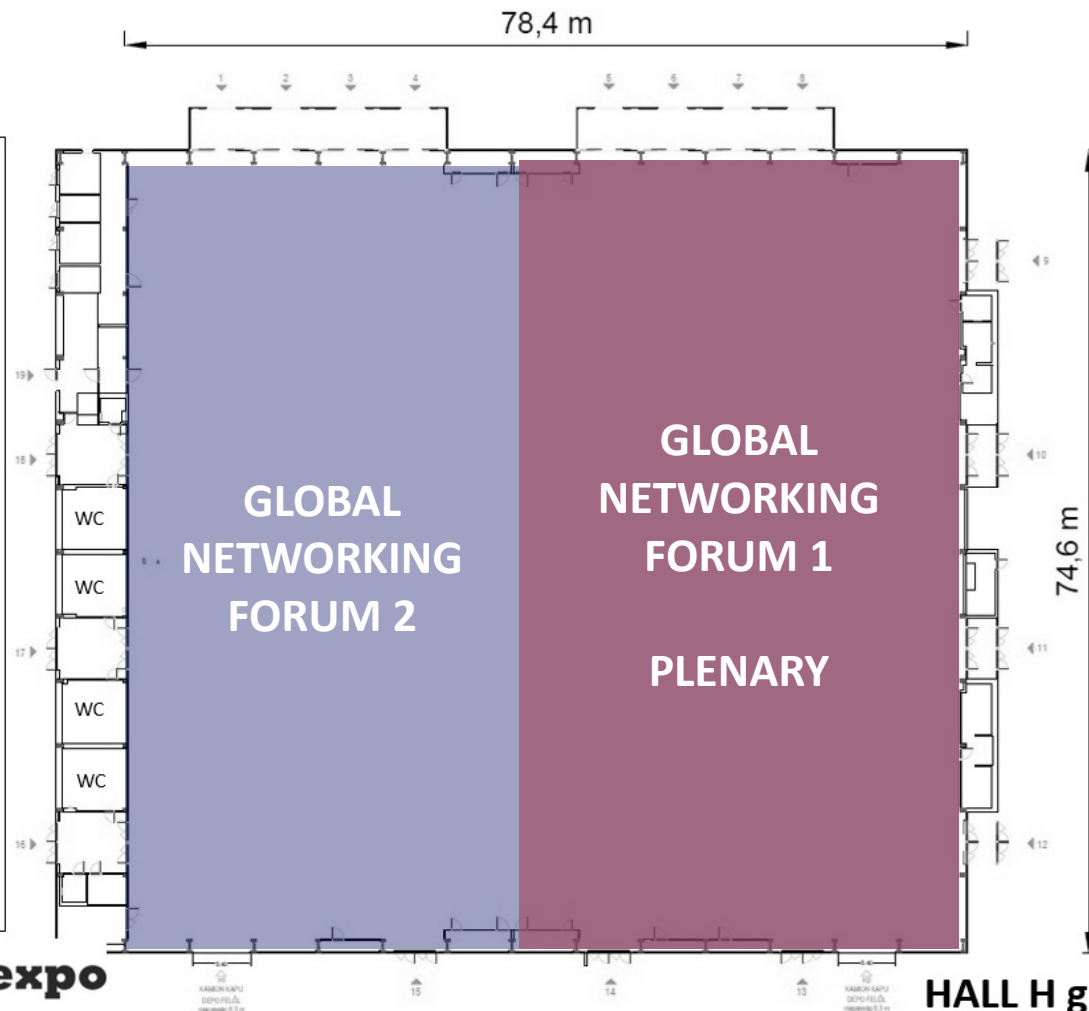
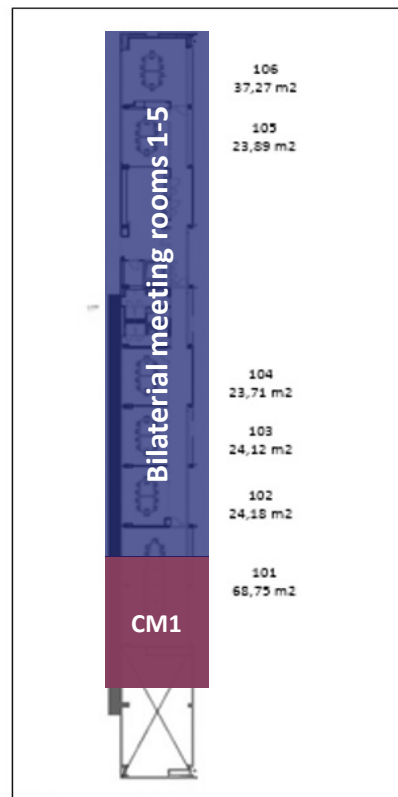
GROUND FLOOR



IAC 2024 **Budapest**
Candidate City

Space: 5.686 sqm
Internal height: 8 m

HALL H gallery



TUESDAY-
FRIDAY

HALL H PLENARY HALL



IAC 2024 Budapest
Candidate City



HALL C CONGRESS CENTRE



IAC 2024 Budapest
Candidate City





IAC 2024 **Budapest**
Candidate City

CAPACITY CHART - HALL C - CONGRESS CENTRE

Function	Size	Quantity	Comment
GROUND FLOOR			
Registration area	1000 sqm	1	-
Exhibition area	2500 sqm	1	Pillars (12x18m), 10 m internal height, flat floor. Exhibition area can be divided into 3 parts (700 pax each) by mobile walls
Session room	230 sqm / 200 pax	6	Convertible up until 2x2600 pax or 2x400 pax and 2x200 pax
Session room	115 sqm / 100 pax	4	Convertible up until 2x200 pax
Coffee break area	1100 sqm	1	In front of the session rooms
MEZZAZINE FLOOR			
Break out rooms	75 sqm/ 50 pax	16	Convertible up until 4x150 pax and 2x100 pax
FIRST FLOOR			
Plenary room	1900 sqm / 2000 pax	1	The auditorium can be divided into 3 parts (531, 440, 598 pax) or used for different kinds of setup
Catering area	1700 sqm	1	For coffee breaks and stand up lunches, poster session, exhibition
Roof terrace	2350 sqm	1	Outdoor area with car exhibition opportunity (car elevator)

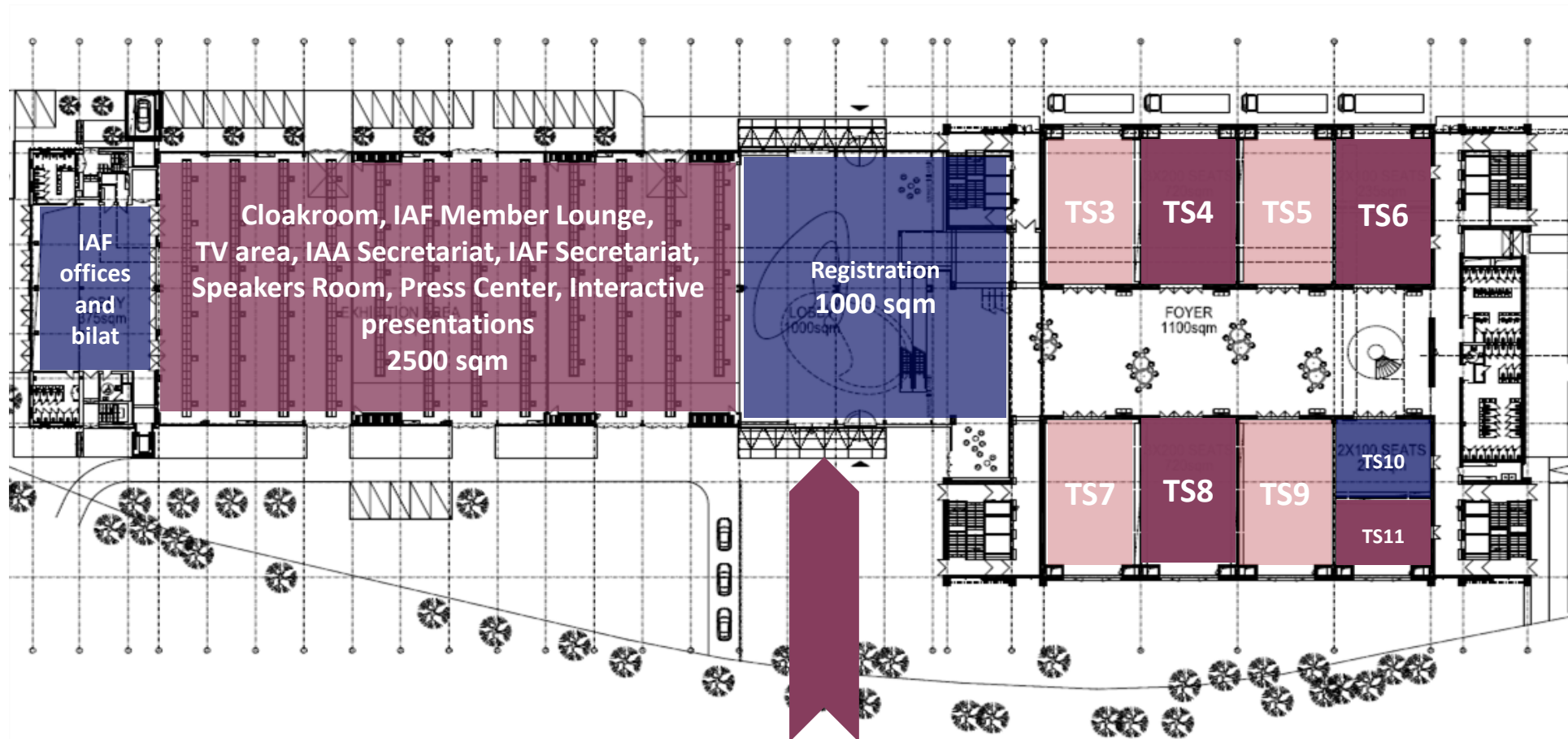
Technical sessions

7 rooms for TS 3-9 (200 pax), 2 rooms for TS 10-11 (100 pax)

HALL C CONGRESS CENTRE GROUND FLOOR



IAC 2024 **Budapest**
Candidate City



ATTENDEES ARRIVAL

HALL C CONGRESS CENTRE

GROUND FLOOR



IAC 2024 Budapest
Candidate City

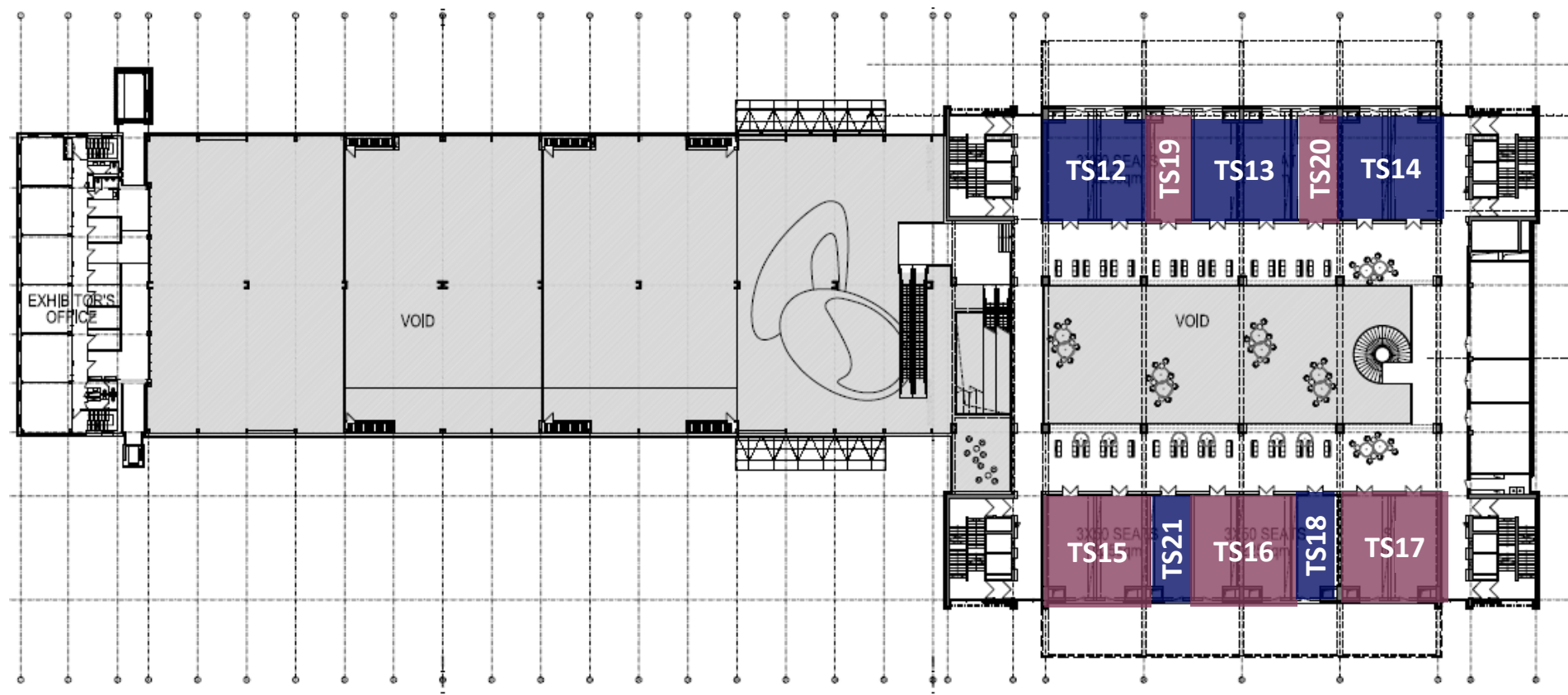


Technical Sessions 11-21

HALL C CONGRESS CENTRE MEZZANINE FLOOR



IAC 2024 **Budapest**
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6 rooms Technical Sessions 12-17 (100 pax), 4 rooms for Technical Sessions 18-21,
IAA Meetings 1-6, IAF workshop

HALL C CONGRESS CENTRE

MEZZANINE FLOOR



IAC 2024 Budapest
Candidate City

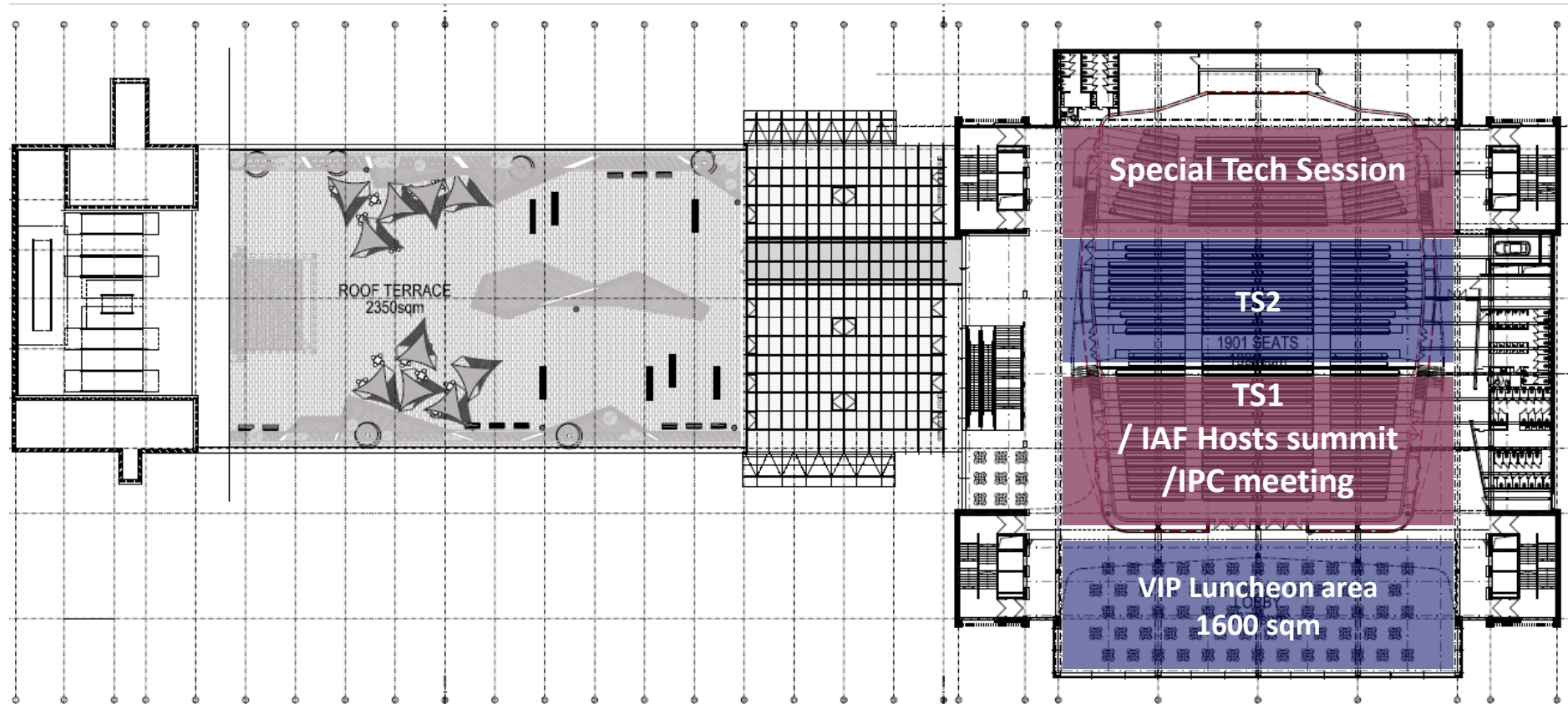



HALL C CONGRESS CENTRE

FIRST FLOOR



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IAC 2024 **Budapest**
Candidate City

**75TH INTERNATIONAL
ASTRONAUTICAL CONGRESS**
IN BUDAPEST, HUNGARY



IAC 2024 **Budapest**
Candidate City

HALL C CONGRESS CENTRE
FIRST FLOOR

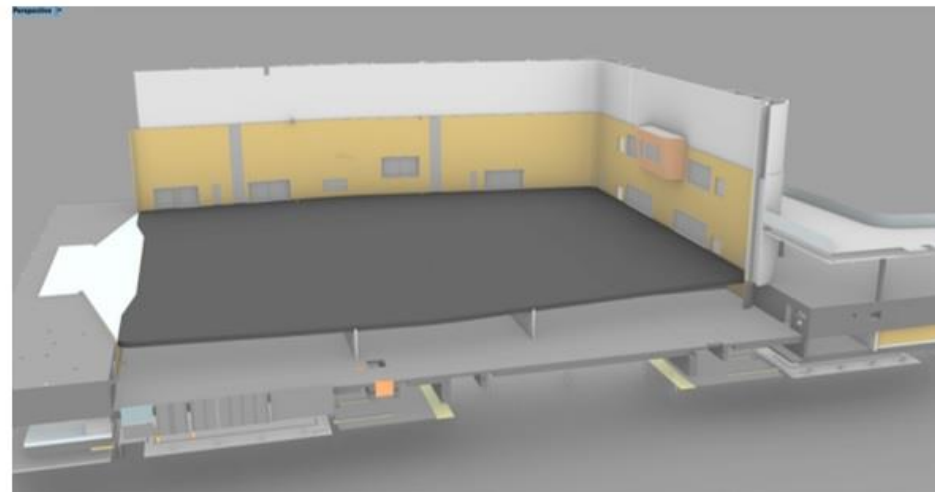
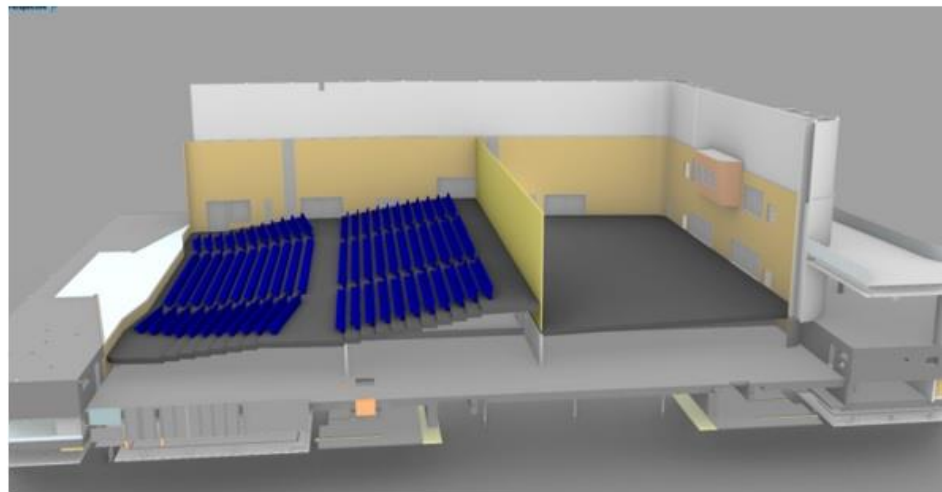
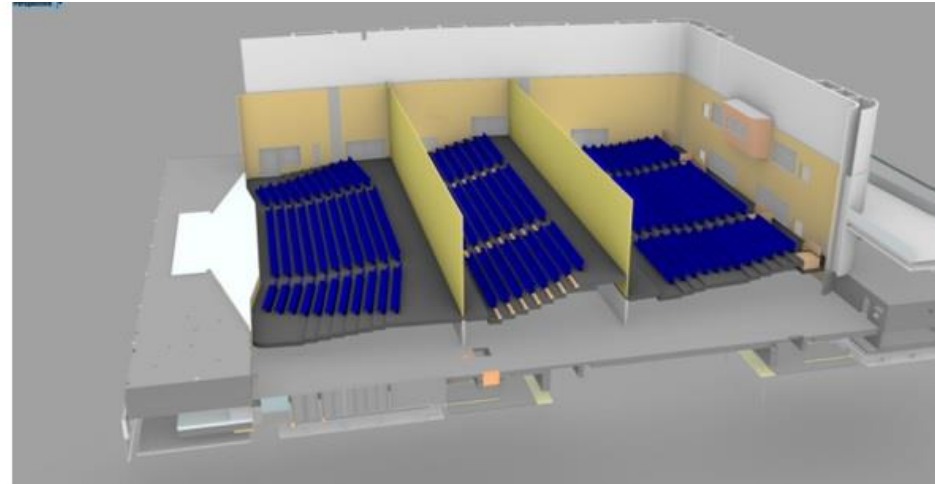
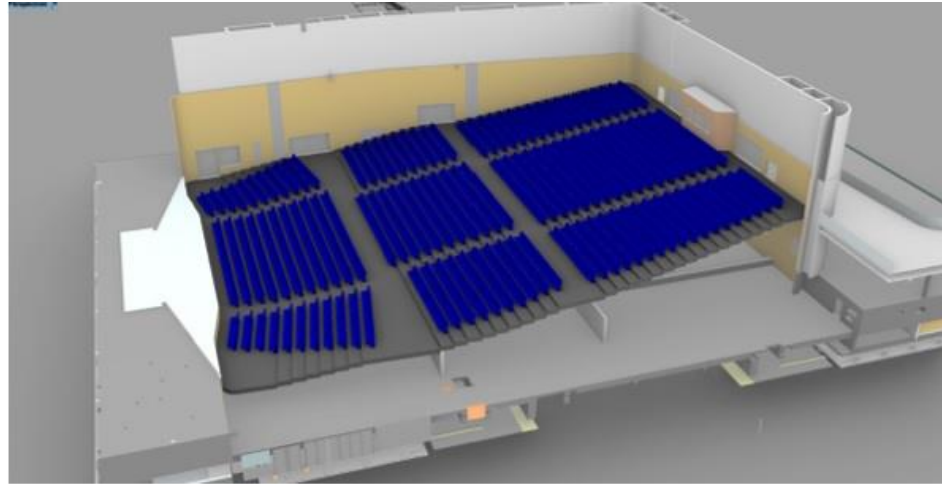


TS1-TS2-Special Tech Session

HALL C CONGRESS CENTRE CONFIGURATIONS



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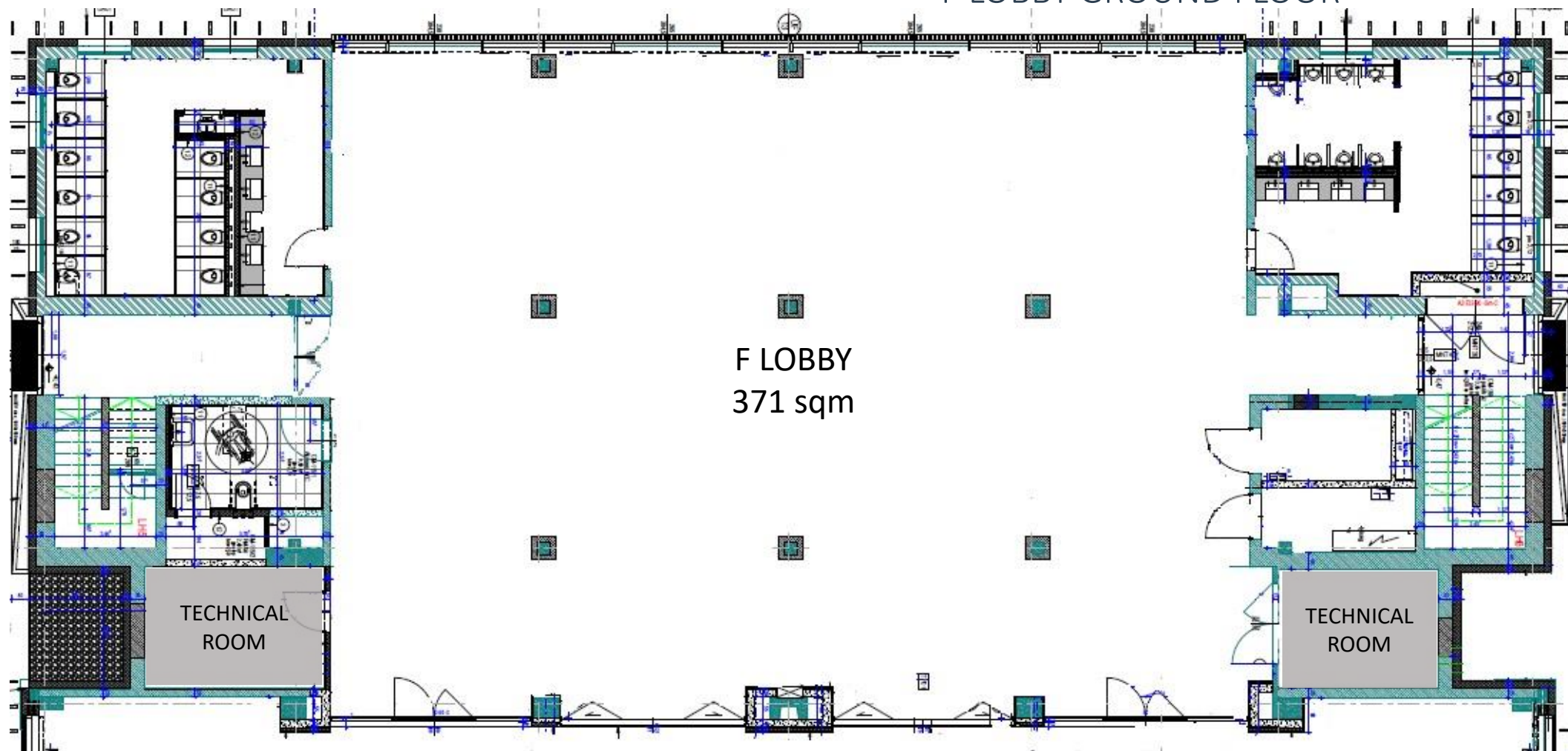


Architectural floor plan of the roof area. The plan shows a large central area labeled "TECHNICAL AREA" and a smaller area on the left labeled "ROOFTOP TOILET". The plan includes various rooms, corridors, and structural elements, with a blue dashed line indicating the perimeter of the roof area. A car is parked in the lower right corner.

Part of Hall C

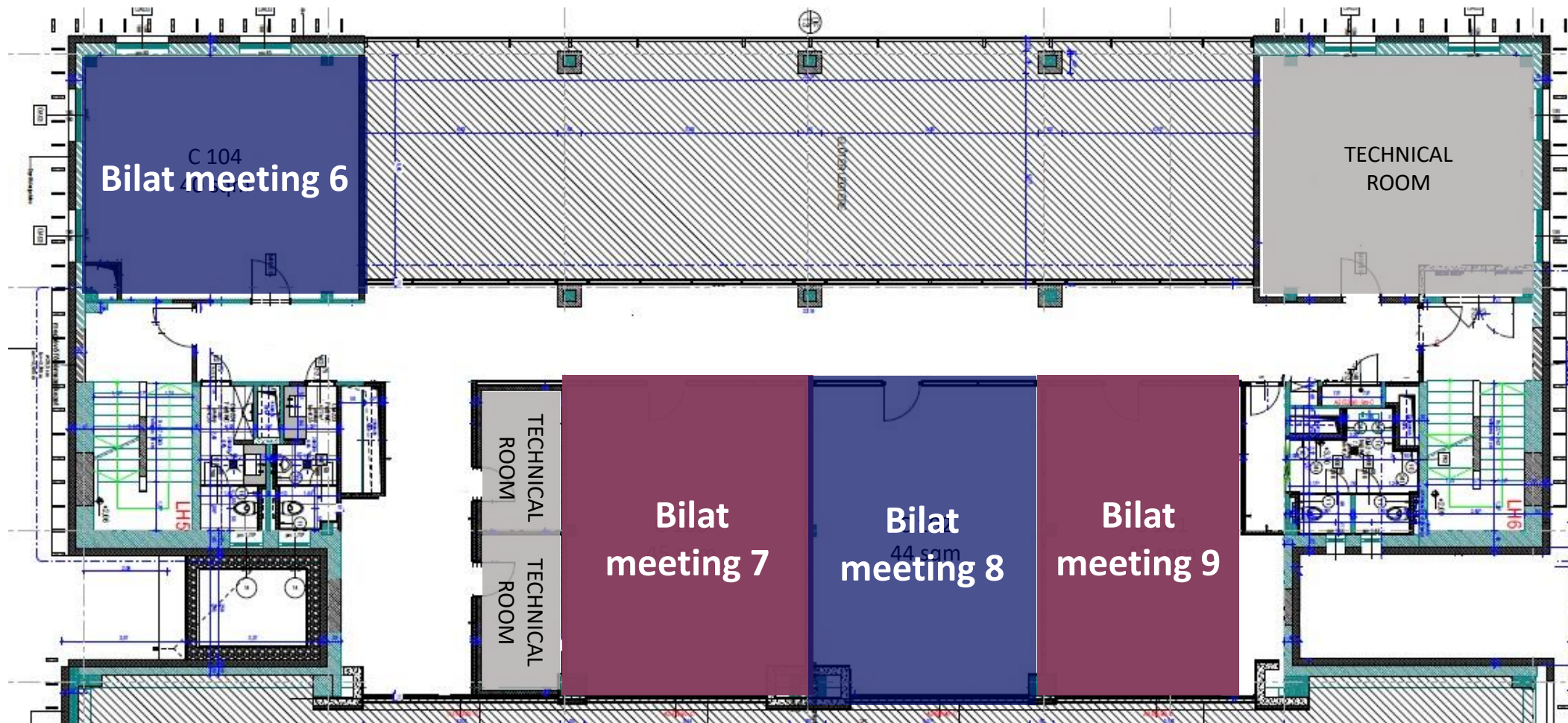
HALL C CONGRESS CENTRE

F LOBBY GROUND FLOOR



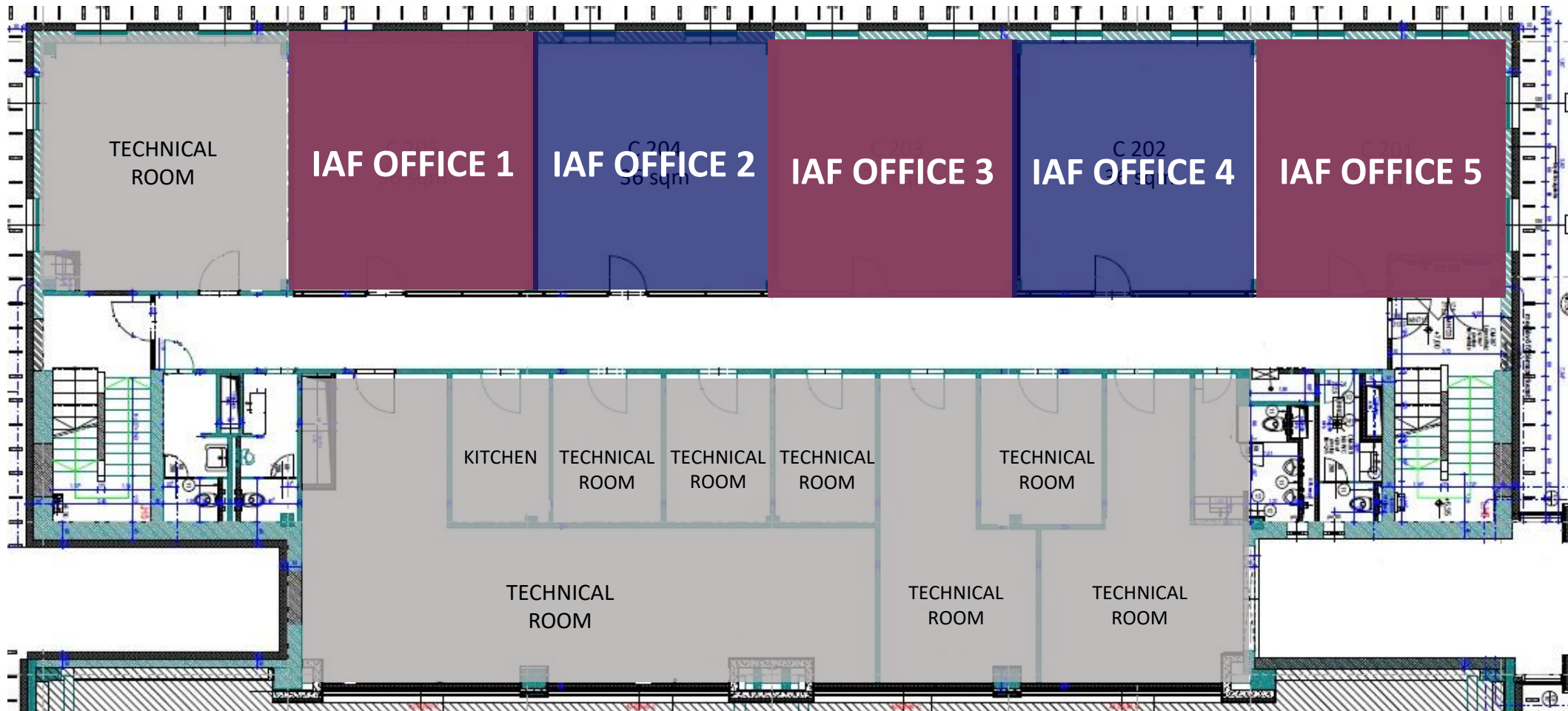
BILATERAL MEETINGS 6-9

HALL C CONGRESS CENTRE F LOBBY FIRST FLOOR



IAF OFFICES 1-5

HALL C CONGRESS CENTRE F LOBBY SECOND FLOOR

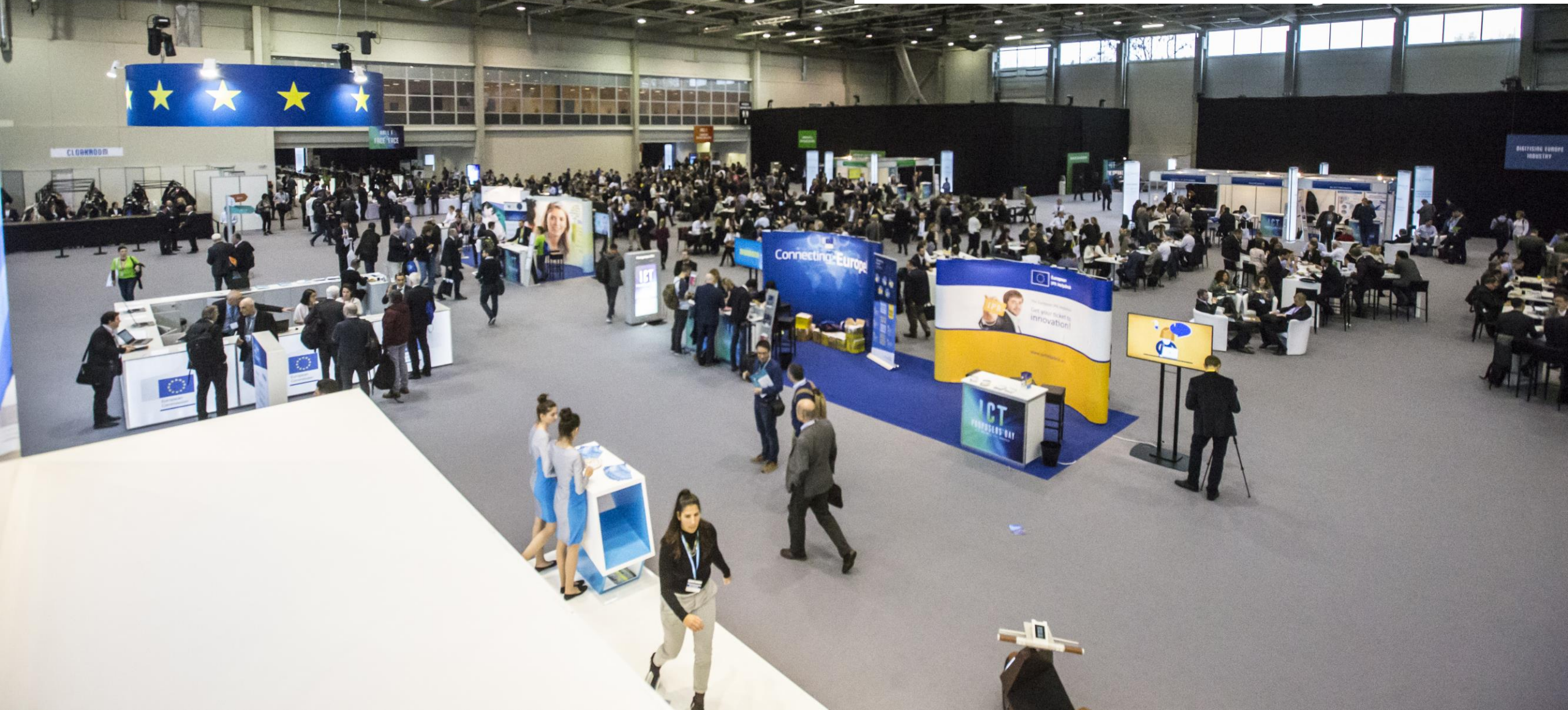


HALL G-F EXHIBITION HALL

GROUND FLOOR



IAC 2024 Budapest
Candidate City





IAC 2024 **Budapest**
Candidate City

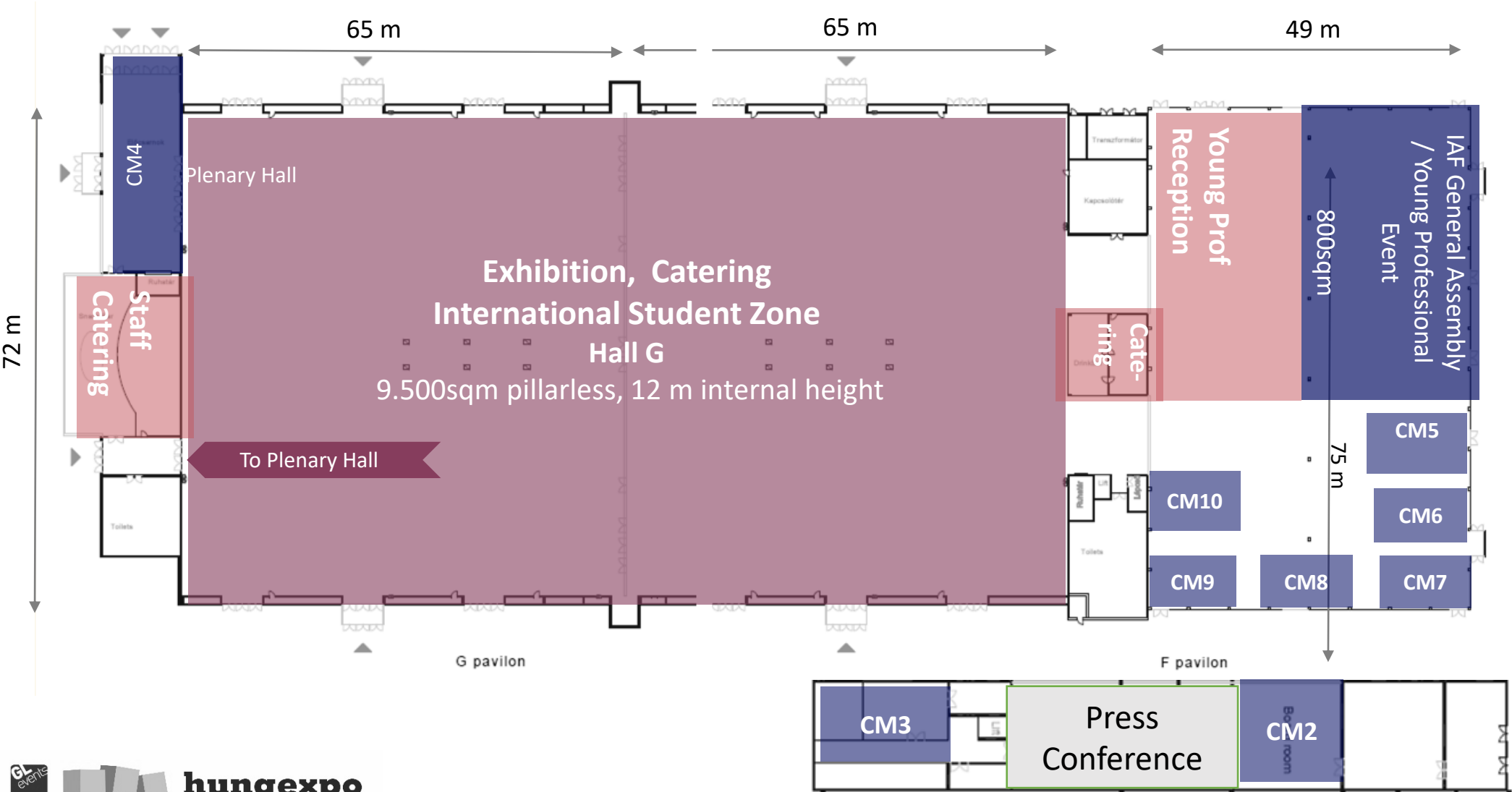
CAPACITY CHART - HALL G+F

Function	Size	Quantiny	Comment
HALL G EXHIBITION FLOOR			
Exhibition area	9504 sqm	1	Pillarless, 12 m internal height, flat floor. The hall can be separated in the middle by a full-lenght mobile wall into 2 parts: G1 and G2. Interconnecting with Hall F
HALL G GALLERY			
VIP I.	271 sqm	1	Pillars in the middle, 4 m internal height
VIP II.	135 sqm	1	Pillarless, 4 m internal height. Opening from VIP I.
VIP III.	42 sqm	1	Pillarless, 4 m internal height
HALL F EXHIBITION FLOOR			
Exhibition area	3838 sqm	1	Pillars (12x24 m), 7 m internal height, flat floor. Interconnecting with Hall G

HALL G-F EXHIBITION HALL



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Candidate City



SERVICES AT MAIN VENUE



IAC 2024 **Budapest**
Candidate City

Catering

Free fast-speed wifi

Free cloakroom

Free childcare

Banking facilities



BUILT-IN ROOMS



IAC 2024 **Budapest**
Candidate City



high quality soundproofing structure with air conditioning

6 rooms for committee meetings, 1 room for General Assembly

BUILT-IN ROOMS - MATERIAL



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Candidate City

The sound absorbing panel is made of thick fabric material, its size is 1,4 x 3 meters, they can be simply attached to each other. A truss frame is rigged from the ceiling grid system in a square or rectangular shape and the sound absorbing panels are then attached to the trusses. The meeting room height may be 4,4 meter or 6 meters. Height is depending on the size of the room and height of the hall in which the rooms are built. **The panels are covered with fire-proof black curtain from inside and also from outside** – this is primarily for decoration purpose.

The ceiling of the room is also covered with a sound absorbing fabric which is stretched over the room. This is to avoid sound reflection from the hall metal ceiling structure. Additional truss(es) in the center are keeping the ceiling fabric straight.

Air conditioning or ventilation is led into the rooms in order to ensure the proper temperature and fresh air during the conference. Entrances are double doors, supporting the room to stay soundproof. The printable framing surrounding the entrance doors can be used for tailor designed event branding. Carpeting of chosen colors, house light, and air conditioning are included in the basic room set-up.

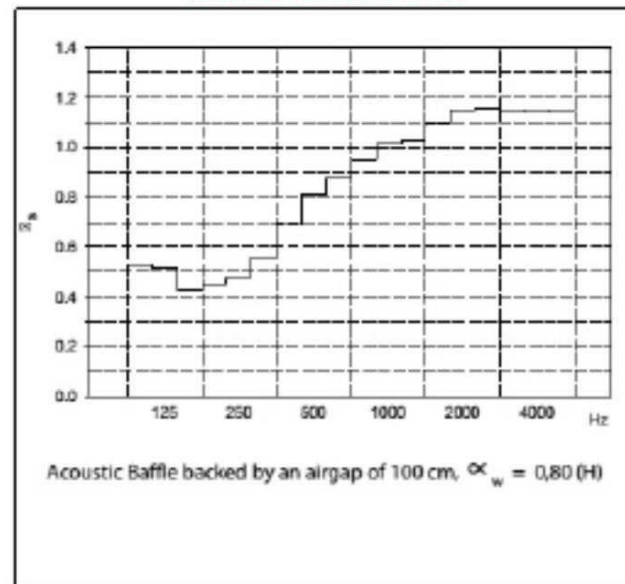
BUILT-IN ROOMS - MATERIAL



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SOUND ABSORPTION



SOUND INSULATION

f Hz	R 1/3 oct. dB	R 1/1 oct. dB	f Hz	R 1/3 oct. dB	R 1/1 oct. dB
100	6.3	7.5	100	9.3	11.3
125	7.5		125	11.4	
160	9.0		160	14.8	
200	9.9	10.1	200	19.6	20.2
250	9.7		250	19.7	
315	10.9		315	21.4	
400	11.6	12.4	400	22.8	23.9
500	12.3		500	24.6	
630	13.4		630	24.5	
800	15.7	17.7	800	30.0	33.6
1000	18.0		1000	36.0	
1250	20.9		1250	41.4	
1600	23.9	26.4	1600	47.4	51.2
2000	27.5		2000	54.5	
2500	30.2		2500	60.1	
3150	32.8	34.6	3150	65.8	68.7
4000	35.1		4000	70.4	
5000	36.9		5000	72.8	
EN-ISO 717-1 R _w (C;C _w) = 18 (-1;-3) dB 1 BAFFLE			EN-ISO 717-1 R _w (C;C _w) = 29 (-1;-5) dB 2 BAFFLES / 30CM IN BETWEEN		

More details:

<https://myalbum.com/album/M6x9IY3q7RsL>

ENJOY HUNGARY!



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HUNGEXPO refurbishment and expansion project, incl. video:

<https://myalbum.com/album/5cUVbTkTRqu5>

Virtual tour of the new congress center:

https://visiongraphics.eu/PANO/HUNGEXPO_C/

HUNGEXPO reference videos:

<https://www.youtube.com/playlist?list=PLbp9N6noZGnwOSyq5t3d47nLeDJAD2s4p>

Hungary – Wellspring of Wonders

https://www.youtube.com/watch?v=j7q0Y_JZMrg

Budapest – Spice of Europe

<https://www.youtube.com/watch?v=pHLKl8WOuu4>

Hungarian space activity – An overview

<https://youtu.be/0uL7y1Hvm1g>



MANT
Hungarian Astronautical Society



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IAC2024 **Budapest Proposal**

Interested in further details?

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Ministry of Foreign Affairs and Trade



This executive summary has been supported by the Ministry of Foreign Affairs and Trade and by the Budapest Convention Bureau (BUD CB).

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