2nd UNESCO-IOC Global Tsunami Symposium

"Two Decades After 2004 Indian Ocean Tsunami: Reflection and the Way Forward"

Monday 11th - Thursday 14th November 2024 in BANDA ACEH, INDONESIA



PRE-EVENT International Workshop (8-10 Nov 2024) Venue: USK Banda Aceh	2 nd UN	POST-EVENT ICG IOTWMS XIV Session Venue: Jakarta			
Hosted by IABI in collaboration with TDRMC and IGI	Day 1 (11 Nov 2024)	Day (12 Nov 2024)	Day 3 (13 Nov 2024)	Day 4 (14 Nov 2024)	
	Opening Ceremony	Session 3	All Day Excursion	Session 7	
		Session 4		Session 8	
		Hosted by BMKG			
	Session 1	Session 5		Closing	
	Session 2	Session 6		Ceremony	
	Exhibitions, Post and "Rumah Res	0-12 Nov 2024): ers, Ignite Stages illience Indonesia" ceh Convention Hall			

Scope

The scope of the event consists of:

- 1. Pre-Event (8-10 November 2024) hosted by IABI in collaboration with USK-TDRMC, IGI, UNESCO IOC and IUGG-JTC.
- 2. Main Event (11-14 November 2024): the 2nd UNESCO-IOC Global Tsunami Symposium.
- 3. Special Event: Posters Sessions, Exhibitions and Ignite Stages.

Main Event: 2nd UNESCO-IOC Global Tsunami Symposium

"Two Decades After 2004 Indian Ocean Tsunami: Reflection and the Way Forward"

Monday 11th - Thursday 14th November 2024

in BANDA ACEH, INDONESIA







unesco

Intergovernmental Oceanographic Commission



Location of Banda Aceh Indonesia

One registration for all events \rightarrow at the symposium website (at BMKG)



How to get there:

- 1. Via Jakarta with all domestic flight
- 2. Via KL Malaysia using Air Asia

Aims

- To commemorate two decades after 2004 Indian Ocean Tsunami
- To reflect what has been achieved in two decades
- To identify gaps, challenges and priorities for tsunami early warning
- To identify synergy with global challenges and coherence with global commitments
- To gather global tsunami community

Hosts

- Government of Indonesia BMKG (Host)
- UNESCO IOC Tsunami Resilient Section (Co-host)
- IUGG (International Union of Geodesy and Geophysics) – Joint Tsunami Commission (Co-host)

Steering Committee

(Approved by TOWS WG)

To guide the Programme Organizing Committee on the substance of symposium: the themes, topics, programme, expertise and speakers, etc.

1. Government of Indonesia:

- Head of BMKG: Prof. Dwikorita Karnawati (Chair of UNESCO-IOC ICG/IOTWMS)
- Head of BNPB: Letjen Suharyanto
- Representative of Ministry of Foreign Affairs: (TBD)

2. UNESCO Jakarta Office:

Director and Representative: Ms. Maki Katsuno-Hayashikawa

3. UNESCO IOC:

Tsunami Resilient Section: Mr. Bernardo Aliaga

4. UNESCO IOC / ICG IOTWMS:

Head of Secretariat: Mr. Rick Balley

5. UN ODTP:

Chair of Scientific Committee: Dr. Srinivasa Kumar Tummala

6. UN DRR:

Tbd

7. IUGG-JTC:

Chair of Join Tsunami Cooperation: Prof. Tanioka

8. GDRC:

- Prof. Dilanthi Amaratunga
- Prof. Richard Haigh

9. POC:

- Dr. Harkunti P. Rahayu (UNESCO IOC-TOWS WG-TTDMP)
- Mr. Yuji Nishimae (UNESCO IOC-TOWS WG-TTWO)
- Ms. Suci Dewi Anugrah

Programme Organising Committee

(Approved by TOWS WG)

To coordinate and organize the 2nd Global Tsunami Symposium on the detailed planning of the program and agenda

- Chair : Dr Harkunti Rahayu (UNESCO IOC-TOWS WG-TTDMP)
- 2. Vice Chair 1: Mr. Yuji Nishimae (UNESCO IOC-TOWS WG-TTWO)
- 3. Vice Chair 2: Ms. Suci Dewi Anugrah (BMKGUNESCO IOC/ICG IOTWMS WG3 / BMKG)
- 4. Members:
 - 1. Mr. Hanif Andi (Deputy of Geophysics of BMKG)
 - 2. Dr. Laura Kong (ITIC-International Tsunami Information Centre)
 - 3. Denis Chang-Seng (NEAMTIC-Northeast Atlantic and the Mediterranean Seas TIC)
 - 4. Allison Broom (CTIC-Caribbean Tsunami Information Centre)
 - 5. Ardito M Kodijat (IOTIC-Indian Ocean Tsunami Information Centre)
 - 6. IUGG rep
 - 7. Nora Gale (Secretariat of ICG/IOTWMS)
 - 8. JP (ICG/IOWMS)
 - 9. (tbd)

National Committee Indonesia

to coordinate, support, and manage the technical arrangement and organization of the symposium nationally and in Banda Aceh (In collaboration with Programme Organizing Committee - POC)

- Advisor: Deputy of Geophysics
- 2. Head of Technical Committee: Director of Earthquake and Tsunami
- 3. Members:
 - Mitigation Division and other Division of Center for Earthquake and Tsunami BMKG
 - Intl Cooperation BMKG
 - Public Affairs Division BMKG
 - Communication and Networks Division BMKG
 - Aceh Geophysical Station BMKG
 - Regional Centre Medan BMKG
 - BNPB (NDMO)
 - Indonesian Ministry of Foreign Affairs
 - BPBA Province Nangroe Aceh Darussalam (LDMO)
 - BPBA Kota Banda Aceh (LDMO)

Day 1 Morning:

Opening Ceremony

Opening Ceremony'

- 1. Indonesian Anthem
- 2. Prayer
- 3. Moment of Silent (Video) + eyewitness
- 4. Opening Performance (Saman Dance)
- 5. Welcoming Remarks
 - Governor of Nangroe Aceh Darussalam Province
 - ADG/ES of UNESCO-IOC (If not attending, Director of UNESCO Office Jakarta).
 - IUGG Representative
 - The UN Resident Coordinator for Indonesia (TBC)
 - Special Representative of the Secretary-General for Disaster Risk Reduction (TBC)
 - Consider adding IOC President Dr. Yutaka Michida he has been a part of IOC's efforts for decades
- 6. Opening Remark: by the New President of Indonesia
- 7. Keynote Speech 1: Dr. Yutaka Michida (Chairperson of UNESCO-IOC)
- 8. Keynote Speech 2: Let Jen Dr. Suharjanto (Head of BNPB)
- 9. Keynote Speech 2 : Prof. Dwikorita Karnawati (Head of BMKG)
- 10. Recognition of New Tsunami Ready Community
- 11. Group Photo
- 12. Press Conference

Day 1 Afternoon:

Plenary Session

- Session 1: Review of the Tsunami Warning and Mitigation Systems over the past 2 decades (131 min invited speakers)
 - Chair/Moderator: Dr. Idwan Suhardi and Dr Jorn Lauterjung; Raporteur: Nora Gale
 - Opening with UNDRR video
 - a. Presentation: Learning from Mega Tsunamis: 2004 Indian Ocean Tsunami and 2011 Tohoku Tsunami: Prof Jan Sopaheluwakan and Prof. Fumihiko Imamura
 - b. Panel on history of IOTWMS : Dr Harsh Gupta, Dr. Kusmayanto Kadiman, Mr Rick Bailey, Dr. Yuichi Ono, Dr. Charles McCreery
 - c. Presentation: Gaps, challenges, and priorities in tsunami risk, detection, warning and dissemination, awareness and preparedness for the Global Tsunami Warning and Mitigation System: Prof. Dwikorita Karnawati (IOTWMS), Mr. Yuji Nishimae (PTWS), Dr. Gerard Metayer (CARIBE-EWS), Dr. Alessandro Amato (NEAMTWS)
- Session 2: Tsunami generated by non-seismic and complex sources (63 min invited speakers)

Chair/Moderator: Mr. Bernardo Aliaga; Raporteur: Denis Chang Seng

- Opening with Stromboli Volcano video
- a. Progress, gaps and emerging challenges of detecting and warning for tsunamis generated by non-seismic and complex sources: Dr. Francois Schindele/Dr. Raphael Paris, Dr. Fabricio Romano and Dr. Januar Arifin (Krakatoa BMKG)
- b. Evaluating non-seismic generated tsunami modelling: Dr Aditya R. Gusman and Prof. Yuichiro Tanioka
- c. Developing awareness and preparedness of communities for tsunamis generated by non-seismic and complex sources: Dr. Laura Kong and Dr. Semeidi Husrin

Day 2 Morning:

Plenary Session

- Session 3: Tsunami Hazard and Risk Assessment (90 min invited speakers)
 Chair/Moderator: Prof Irwan Meilano and Prof Syamsidik; Raporteur: Rick version 2.0
 - Evaluating seismic and non-seismic generated tsunami hazards: 1. Dr. Finn Løvholt (Global Tsunami Model), 2. Dr. Shunichi Koshimura (Tsunami modelling simulations), 3. Dr Stefano Lorito(Probabilistic tsunami forecasting and hazard assessment), 4. Dr. Silvia Chacon Barrantes (Tsunami hazard assessment), 5. Prof. Syamsidik, 6. Dr. Mohammad Mokhtari, 6. Dr. Hamzah Latief (Tsunami risk assessment)
 - b. Identifying communities at-risk: 1. Ms Sunnanda Manneela (IOTWMS),2. Dr. Matthieu Peroche (NEAMTWS and CARIBE-EWS), 3. Pacific SIDs, 4. Mr. Ignacio Aguirre-Ayerbe (NEAMTWS)
- Session 4: Tsunami Detection, Warning, Dissemination, and Response (90 min invited speakers)
 - Chair/Moderator/Chair Session: Prof Nanang Puspito and Dr. Chip McCreery; Raporteur: Dr. Ocal Necmioglu
 - a. Testimony for lessons to be learnt from past significant Tsunamis: 1. Dr Rahmat Triyono (IOTWMS 2004 and 2018 events), 2. Dr. Osamu Kamigaichi (JMA 2011 event), 3.Dr. Stuart Weinstein (PTWC 2004 event), 4. Dr. Nikos Kalligeris (NEAMTWS 2020 event)
 - How do we Enhance Timeliness and Accuracy of Tsunami Warnings?: 1. Dr. Srinivasa Kumar Tummala, 2. Mr Shingo Ushida, 3. Dr. Dakui Wang, 4. David Coetzee (response)
 - How do we Ensure Tsunami Warnings Reach all in the community?: 1. Mr. Bernado Aliaga, 2. Mr. Harald Spahn, 3. Dr. Harkunti P. Rahayu, 4. Dr Renato Solidum (preparedness)

Day 2 Afternoon:

Plenary Session

 Session 5: Achieving 100% Communities at Risk to be Prepared for and Resilient to tsunami by 2030 (90 min - invited speakers)

Moderator: Prof Faisal Fathani and Dr. Denis Chang Seng; Raporteur: Alison Brome

- a. UNESCO-IOC Tsunami Ready Recognition Programme: Mr Bernardo Aliaga
- b. Progress of UNESCO-IOC Tsunami Ready Recognition Programme: 1. Ms. Suci Anugerah (IOTWMS), 2. Ms. Christa von Hillebrant-Andrade (CAERIBEE-EWS), 3. Elena Daskalaki (NEAMTWS), 4. Dr. Laura Kong (PTWS),
- c. Synergising Tsunami Ready with national programmes for tsunami preparedness: 1. Dr. Rustian (BNPB-IDRIP), 2. Ms. Ashleigh Fromont (PTWS), 3. Ms Weniza (IOTWMS)
- d. Tsunami Ready Coalition: Dr Laura Kong
- e. World Tsunami Awareness Day (WTAD): Ms Rosalind Cook
- f. WTAD 2024 Tsunami United Initiatives: Mr. Ardito Kodijat
- Session 6: Other critical issues for building community resilience (90 min invited speakers)

Chair/Moderator: Mr. Ardito M. Kodijat and ; Raporteur: Dr. Laura Kong

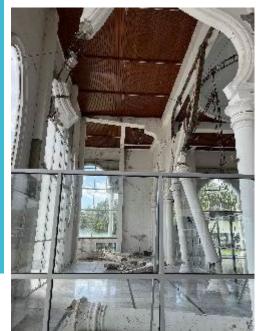
- Social and Human perspective in Tsunami Science and Tsunami Early Warning System: 1. Prof. Syamsul Maarief, 2. Prof. Denise Conan, 3. Ms. Irina Rafliana, 4. Dr Fatemeh Jalayer, 5. Dr. Okta Rina
- b. Critical infrastructure ready for tsunami: design, implementation, and maintenance: 1. Dr. Harkunti P. Rahayu, 2. Mr. Ruly (GM of Airport), 3. Prof. Masyhur Irsyam (Building Code for Critical Infrastructure), 4. Dr Hiroyasu Kawai Port and Harbour PARI Japan
- c. Cascading and compound hazards, systemic risk: Prof. Louise K. Comfort and Prof. Richard Haigh

Day 3:

Excursion

All Day Excursion

- 1. Museum Tsunami Aceh
- 2. Affected area: Lampuu
- 3. Tabur bunga di. Makam masal
- 4. Tsunami Ready Village: Inauguration Tsunami Ready and Tsunami Drill
- 5. ...







Day 4 Morning:

Plenary Session

Session 7: Contributions of TEWS to global initiatives

Moderator: Mr. Bernardo Aliaga and Dr. Andi Eka; Raporteur: Nora Gale

- a. MHEWS & EW4ALL: Dr. Ben Churchill (WMO) and Anna Kruip (UNDRR)
- b. UN Ocean Decade: Dr. Srinivasa K. Tummala
- c. SDGs & COP28 & SFDRR: Dr. Marco Toscano Rivalta (UNDRR)
- d. MCR2030 (Mainstreaming DRR into Urban Planning): Dr. Denis Chang Seng and Prof Dilanthi Amaratunga

Session 8: Wrap up/Synthesis/Way Forward

Moderator: Dr. Srinivasa K. Tummala and Dr. Harkunti P. Rahayu; Raporteur: Bernado

- Round Table Discussion on Way Forward (Chairs and TIC representatives each ICG, IUGG expert, UNDRR representative, Chair ODTP Science Committee): Prof. Dwikorita Karnawati, Mr. Ardito Kodijat, Mr. Yuji Nishimae, Dr. Laura Kong, Dr. Alessandro Amato, Dr. Denis Chang Seng, CARIBE-EWS Chair, CTIC Representative, Prof. Yuichiro Tanioka (IUGG JTC Chair), Dr. Marco Toscano Rivalta, Dr. Srinivas Kumar Tummala
- b. Contributions to an outcome document, drawing upon achievements, gaps, challenges, and priorities from each session, including pre-event, Ignite stage and posters → 7 session Moderators and Programme Organising Committee Dr. Idwan Suhardi, Mr. Bernardo Aliaga, Prof. Irwan Meilano, Prof. Nanang T. Puspito & Dr. Charles McCreery, Prof. Faisal Fathani & Dr. Denis Chang Seng, Mr. Ardito M. Kodijat & Dr. Ocal Necmioglu, Mr. Bernardo Aliaga & Dr. Andi Eka Sakya, Dr. Harkunti P Rahayu, Mr. Yuji Nishimae, Ms. Suci Dewi Anugrah

Day 4 Afternoon:

Closing Ceremony

Closing Ceremony

- Indigenous Story-Teller Pak Ngah
- Hand-over prize to the Indian Ocean Youth Tsunami Conversation and Campaign (IOYTCC) winners (4 Indian Ocean regions)
- 3. Winner announcement for best poster presentation
- 4. Winner announcement for school children art/drawing competition
- 5. Closing Remark:
 - Head of BMKG
 - Representative of the Local Government
 - Representative of UNESCO-IOC
 - Banda Aceh Statement (in one powerful sentence) presented by Chair of Steering Committee
 - Representative of the Government (Official Close of the event)
- 6. Press Conference

How to Register UNESCO IOC 2nd Global Symposium?



https://globaltsunamisymposium.bmkg.go.id

Mian Event Registration

- **1. 2**nd **Global Tsunami Symposium** at BMKG web: globaltsunamisymposium.bmkg.go.id
- 2. Exhibition at BMKG web: globaltsunamisymposium.bmkg.go.id
- 3. Poster Session at BMKG web: globaltsunamisymposium.bmkg.go.id
- 4. **Ignite Stage** at BMKG web: globaltsunamisymposium.bmkg.go.id

Pre-Event Registration

- 1. The 8th PIT-IABI (Annual Scientific Meeting of the Indonesian Disaster Experts Association) in Bahasa Indonesia from Friday to Sunday (8-10 November) 2024: Roundtable Discussion with Indonesian Prominent Figure in disaster risk reduction during and post 2004 tsunami, Talk Show and Lecture Series, link: https://www.iabi-indonesia.org/
- 2. 16th AIWEST-DR (Aceh International Workshop and expo on Sustainable Tsunami Disaster Recovery) in English from Friday to Saturday (8-9November) 2024 consists of plenary and parallel scientific paper presentation covering several topics, link: https://aiwest-dr.usk.ac.id
- 3. UNESCO-IOC Roundtable Discussion on tsunami cataloguing and parameterization (IUGG/ IASPEI-IAPSO-IAVCEI Tsunami Commission) in Saturday 9 November 2024, link: globaltsunamisymposium.bmkg.go.id
- 4. Millennial agenda: Exhibition for SMEs (8-12 Nov), Sunday Fun Bike/Fun Walk (10 Nov), drawing competition for Elementary School Banda Aceh (8 Nov), <u>Tik Tok</u>, Tsunami Tracing Walking Tour (Friday to Sunday), link: https://www.iabi-indonesia.org/

Registered Participants



Banda Aceh Convention Hall

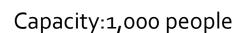
Opening, Closing, Plenary and Side event activities

Venue: Main Event

11-12 November 2024







Venue: Main Event

14 November 2024



Hermes Hotel

Session 7 & 8 and Closing Ceremony



Capacity: 200 people

Side-Events: Ignite Stage, Booth and Poster Exhibition

Date: 11 – 14 November 2024

Venue: Banda Aceh Convention Hall

Side-Event:

The side event using the concept of Rumah Resiliensi (Resilient House) "small expo from us to us"

- Aims to provide platform for
 - Tsunami open to public to participate for Global Tsunami Symposium
 - and DRR players to show product, result, and innovation on Tsunami Mitigation, Tsunami Preparedness, Tsunami Awareness, Tsunami Early Warning, etc.
 - Youth and young professionals (i.e. early career researcher and scientist) to showcase their research and activities on Tsunami Risk Reduction
 - For donor and sponsors to participate and showcase their engagement in the symposium

Venue: Side Events: 9-12 November 2024



1. Exhibitions



3. Poster Session: open to public to participate for Global Tsunami Symposium



2. Ignite Stage: for invited

- institutions/organization
- experts/celebrities/public figures
- tsunami survivors
- Schedule: During Coffee Breaks, Lunch Breaks and 1 hour after the end of day of the main event activities

4. Booth Display:

- winner of Banda Aceh local school art drawing competition
- Winner of Video competition



POSTER SESSION

Scientist, Students, practitioners, NDO, Government, Community, Public, are welcomed to register the poster session. The Poster Session will be held on 10–12 November 2024.

	Topics of the Poster
•	Review of the Tsunami Warning and Mitigation Systems over the past 2 decades
•	Tsunami generated by non-seismic and complex sources
•	Tsunami Hazard and Risk Assessment
•	Tsunami Detection, Warning, Dissemination, and Response
•	Achieving 100% Communities at Risk to be Prepared for and Resilient to tsunami by 2030
•	Social and Human perspective in Tsunami Science and Tsunami Early Warning System
•	Critical infrastructure ready for tsunami: design, implementation, and maintenance
•	Cascading and compound hazards, systemic risk

 Paper Size: A0 Layout: Potrait Content: Abstract, Background, Data and Methode, Result and Conclusion Design of the poster is highly recommended to be more visual/graphis with a concise explanation 		Poster Format
 Content: Abstract, Background, Data and Methode, Result and Conclusion Design of the poster is highly recommended to be more 	•	Paper Size: A0
Conclusion Design of the poster is highly recommended to be more	•	Layout: Potrait
▽	•	
Violating raphilo With a concise explanation	•	Design of the poster is highly recommended to be more visual/graphis with a concise explanation

EXHIBITION

- To share with all participants and general public regarding invention, innovation, technology, experience and best practice in preparedness, tsunami early warning and mitigation system.
- Exhibition provides interactive and positive experience for the participants to share knowledge, networking, increase awareness to speed up the implementation of tsunami early warning and mitigation system.
- About 50 exhibition booth provided by BMKG with the size of 3 x 2 m2 for each exhibition participants.
- At the exhibition, electrical outlet, internet and 1 set of table and chair is provided. The rest of display will be prepared by each participants

Rule of The Ignite Stage

- The Stages are limited for 25
 - 30 presentations

Rule of Ignite Stage:

- 15 minutes to presentation including set up and question
- Presentation could be in a TED-talk format, using the presenting mode of your preference
- Every presentation could involve 3 presenters including the moderators
- To get more audience in their session, participations should promote their session in the ignite stage by themselves through flyer, leaflet, or others media before the session is started

Pre-Event: International Scientific Workshop and Sem Scientific Workshop

8 – 10 November 2024 in USK and Hotel Hermes Banda Aceh, INDONESIA

Hosted by IABI collaborated with USK TDRMC and IGI and UNESCO IOC

Pre-Event: International Scientific Workshop 8-9 November 2024

Aims:

- To commemorate 2 decades post 2004 Tsunami
- To conduct PIT IABI 2024 collaborate with AIWEST
- To accommodate International and National Public to present their works/thoughts before participate the UNESCO IOC Global Symposium

Scope:

- PIT VIII IABI (Annual Scientific Meeting) in Bahasa: focus on Plenary and Thematic Discussion with Indonesian Prominent Figures lesson learned the process of Ina TEWS development, Built Back Better Aceh from Tsunami Impact, and way forward for Indonesia Disaster Risk Reduction
- AIWEST Call for paper's presentation for Scientific Workshop in English
- Closing of Pre-Event will join the Opening of the 2nd UNESCO IOC Global Tsunami Symposium and will be officially opened by the new President

1. PITVIII IABI

(8th IABI Annual Scientific Meeting)

Semi Scientific Agenda

venue in: USK (8 & 9 Nov) Hermes Hotel (10 Nov) (8-10 Nov 2024)

Saturday 9/11/24 at USK

 UNESCO-IOC Roundtable Discussion on tsunami cataloguing and parameterization (IUGG/ IASPEI-IAPSO-IAVCEI Tsunami Commission)

2. Roundtable Discussion:

- Disaster research orientation to action to answer future needs and challenges through collaboration among academia, researcher, government, NGOs, and business entity: IABI, BRIN and Business
- Disaster Communication Technology IABI to respond to UN-ODTP dan 2nd Global Tsunami Symposium
- Disaster Technology Market Place
 Discussion. Among IABI members (Follow Up of UB and UGM)
- 4. Technological Failure IABI and BRIN
- Lecture Series : for public, practician, LDMO and academia:
 - Risk Analysis Ina Risk

Sunday 10/11/24 at Hermes Hotel

- IABI Discussion (Sunday 10/11/24): among IABI members to discuss for strategic action
- 2. Plenary Talk: (Sunday 10/11/24) Indonesian Prominent Figure in disaster risk reduction during and post 2004 tsunami
- 3. Application to you from IABI (Ina Risk Personal): Scientific to Practice in disaster communication (show case) → learning from GPDRR all participants will receive information simultaneously starting from the airport

2. AIWEST

Scientific Agenda

Extended Abstract submission: 15 July 2024

Abstract announcements: 25 July 2024

Full paper submission 26 July – 15 September 2024



AIWEST focus on paper presentation in English with main theme: Bridging History and Horizons Towards Sustainable Resilience, Adaptive, and Inclusive World:

Commemorating 20 years of the 2004 Aceh Tsunami

3. PIT VIII IABI (8th IABI Annual Scientific Meeting)

Millennial Agenda

venue in: Hermes Hotel

(8-10 Nov 2024)

- Exhibition for SMEs (8-10 Nov)
- 2. Sunday Fun Bike/Walk (10 Nov)
- 3. Competition for Tsunami
 Resilience: drawing competition
 for Elementary School Banda
 Aceh, <u>TikTok</u>, dll → tbd further
 (Friday Afternonn at AAC)
- 4. Tsunami Tracing Walking Tour (Saturday & Sunday Full Day): followed by presentation <u>at surrounding Tsunami Museum</u>: a promotion for millennial from high school or universities
- 5. VIP luncheon discussion with Prominent Figure in Disaster

6. Tbd

Hotel and Accommodations

Hotels

Alternatives Hotel for Delegation/Participants

- 1. Hermes Hotel (4 star)
- 2. Kyriad (4 star)
- 3. Many 3 star hotels

Thank you ...