



The Asia-Europe Physics Summit

ASEPS

"Physics Towards Science Innovations"

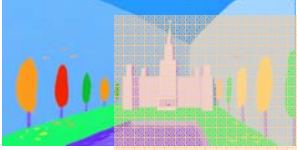
QFTHEP, Golitsyno, Moscow
Russia
Sept, 15, 2020

Denis Perret-Gallix
IN2P3-CNRS (France)



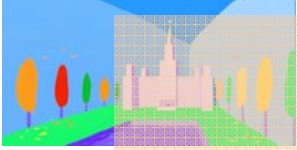
ASEPS is about International Cooperation

- **Aggregating financial supports**
- Benefiting from a wider expertise
- Cultural diversity is the mother of innovation
- Research as a pilot project for political cooperation endeavors



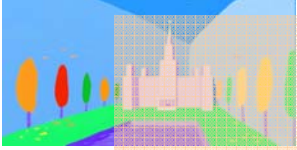
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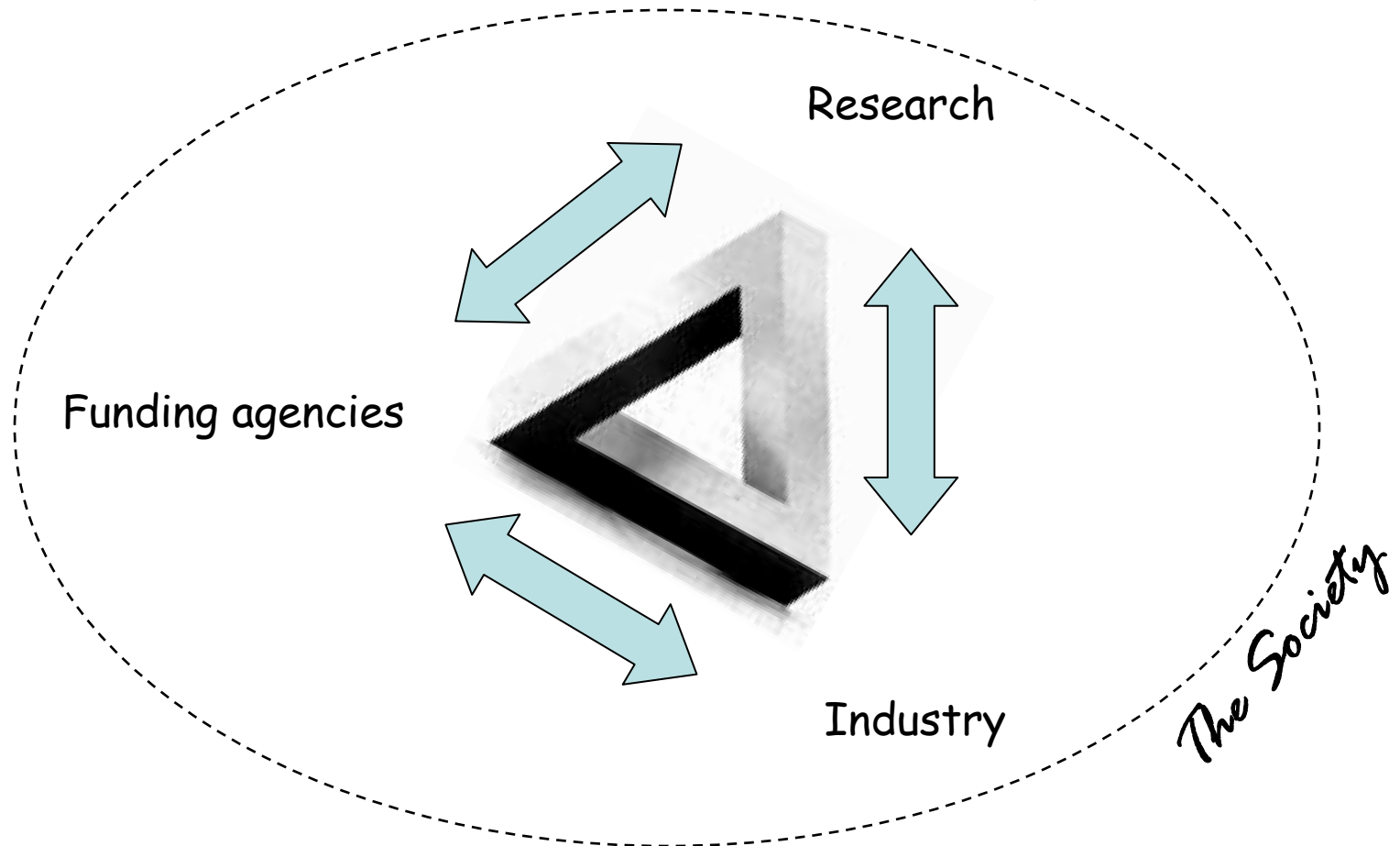


ASEPS_{is} International Cooperation

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- **Research as a pilot project for political cooperation endeavors**



The ASEP Summit, Where Science and Society meet.

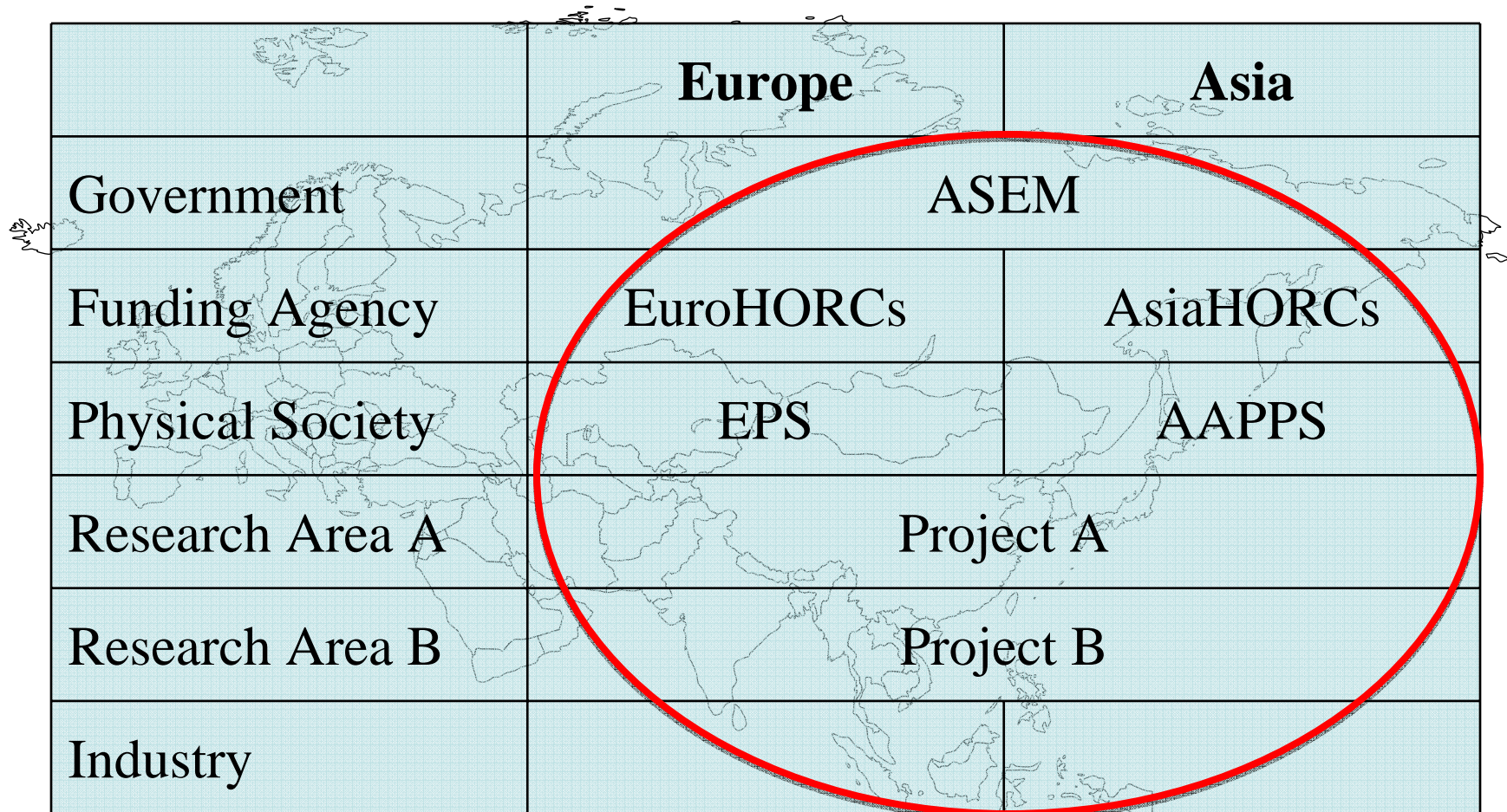




	Europe	Asia
Government	ASEM	
Funding Agency	EuroHORCs	AsiaHORCs
Physical Society	EPS	AAPPS
Research Area A	Project A	Project A'
Research Area B	Project B	Project B'
Industry		



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Government	ASEM	
Funding Agency	EuroHORCs	AsiaHORCs
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Industry		



ASEPS will provide a platform to discuss future prospects of physics research among players in different layers.



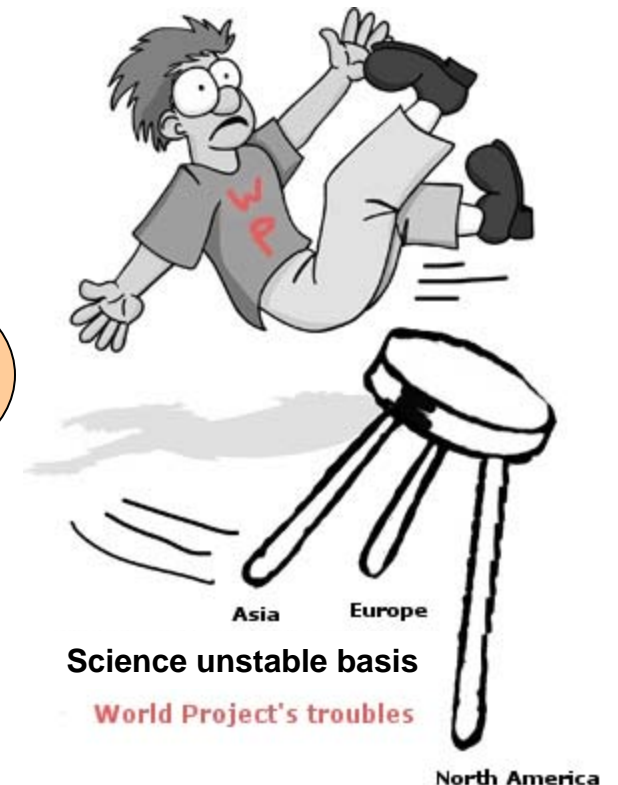
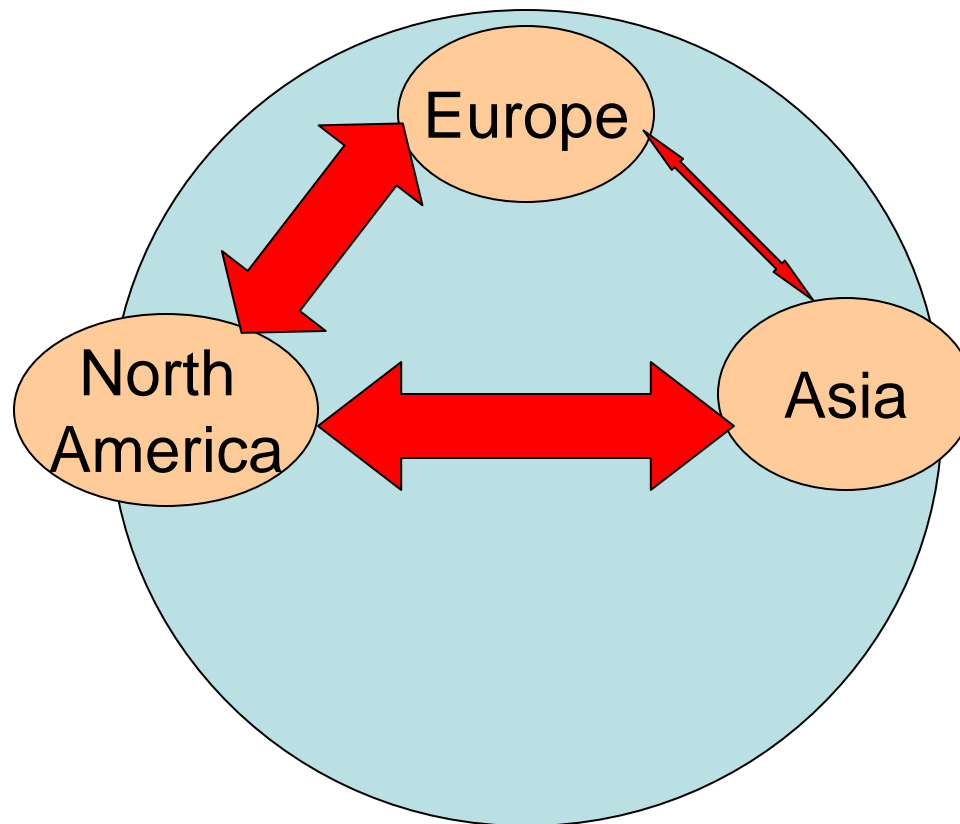
ASEPS is about Asia-Pacific Europe cooperation

- Building a balanced America-Asia-Europe triangle for Research.
- Involving developing countries, a case study.
- First attempt to building multi-lateral research structures (region to region).
- Common history induces ties and duties,
- Wide cultural diversity: in science development, political and economical systems, religions.



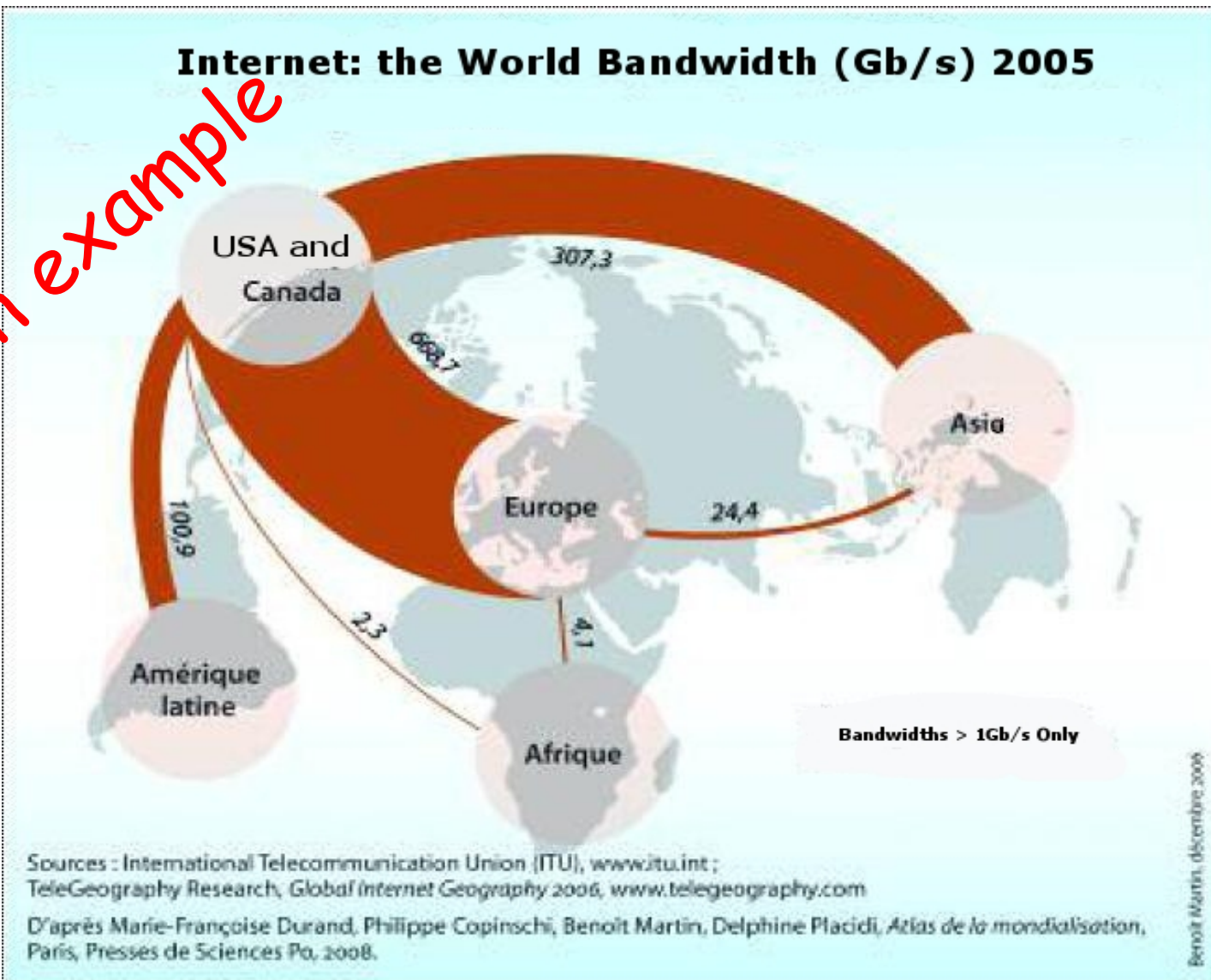
An Asia-Europe initiative

To balance Physics Research cooperation among the 3 main regions





Just an example



Le journal du CNRS n° 231 avril 2009

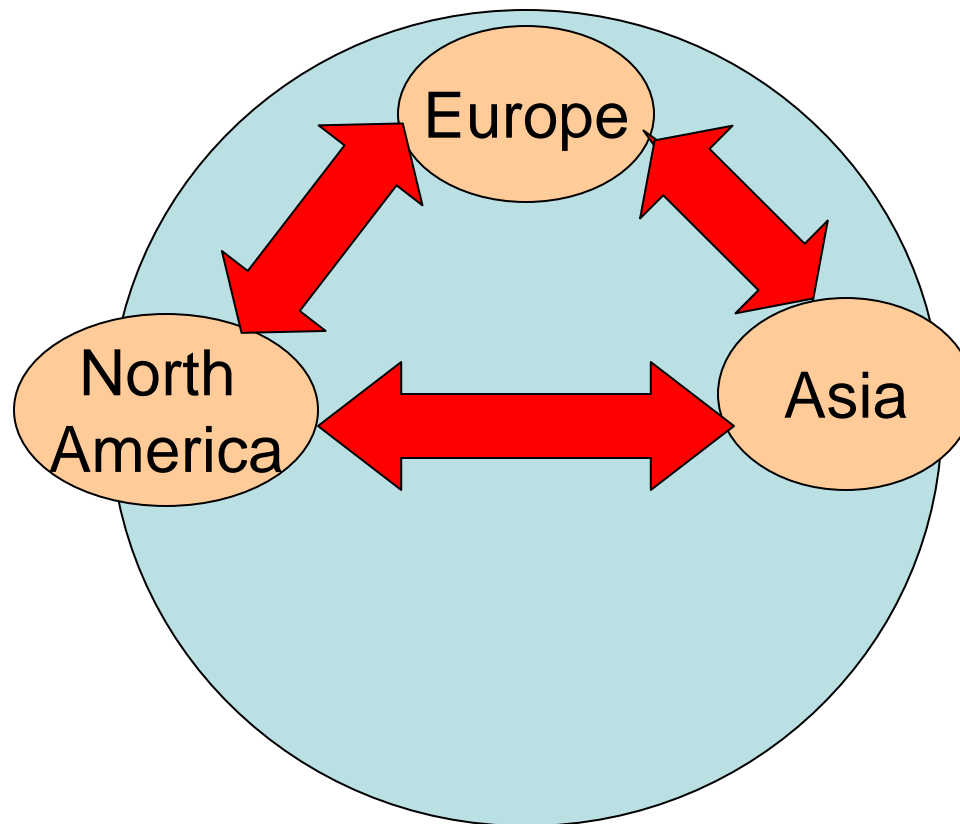
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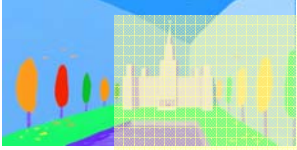


An Asia-Europe initiative

To balance Physics Research cooperation among the 3 main regions



So that World-wide projects can be initiated and run successfully

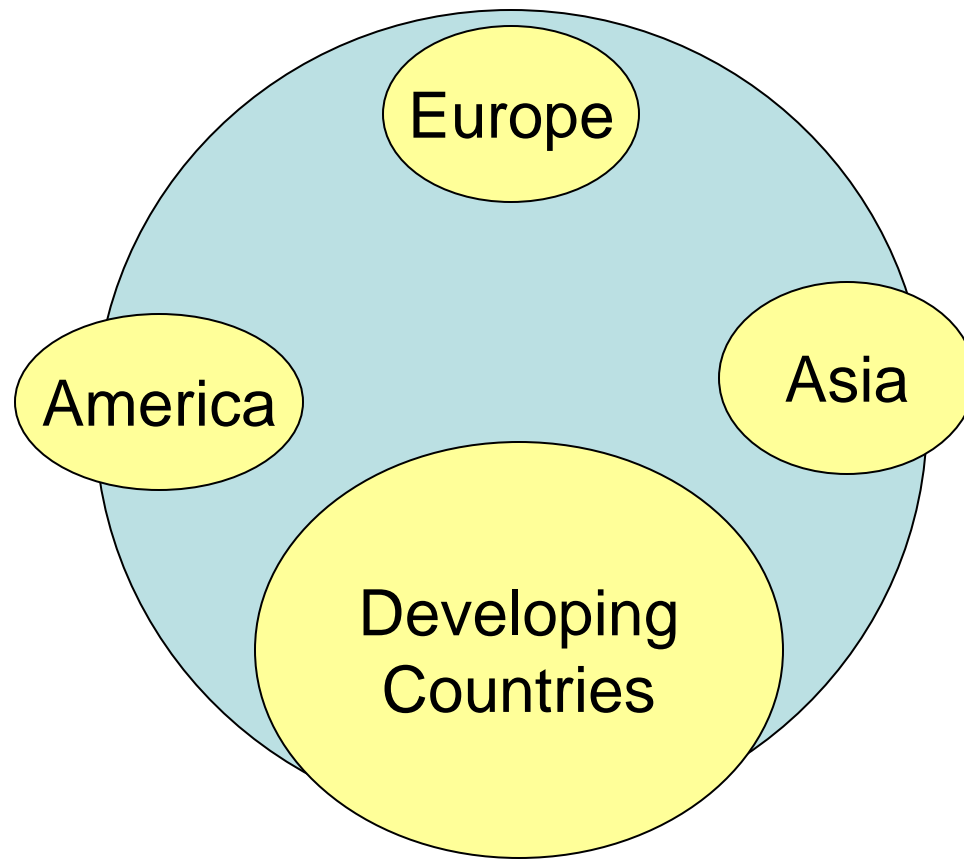


ASEPS, Asia-Europe cooperation

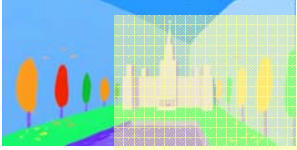
- Building a balanced America-Asia-Europe triangle for Research
- Involving developing countries, a case study
- First attempt to building multi-lateral research structures (region to region)
- Common history induces ties and duties,
- Wide cultural diversity: in science development, political and economical systems, religions



Involving Developing Countries in frontier international research projects is a Must



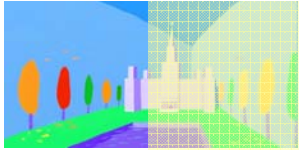
To bridge the knowledge and digital gap



ASEPS, Asia-Europe cooperation

- Building a balanced America-Asia-Europe triangle for Research
- Involving developing countries, a case study
- First attempt to building multi-lateral research structures (region to region)
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Building diversity into Global cooperation



ASEPS, Physics towards Science Innovation

Physics is Fundamental research:

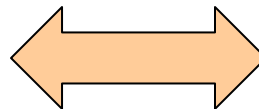
"Useless research" transforming societies and industries

- Basic component(s) of matter
- Ultimate force(s)
- Birth of the Universe

Physics boost innovation in other sciences

- Experimental physics research pushes technology to the limit
- New concepts/methods/tools find applications in other science

Physics



Other sciences

ASEPS



ASEPS Missions

- ASEPS is a platform to **forge Asia-Europe physics program strategies**
 - To improve the **communication with the society**, *in particular between Scientists, Decision makers, Industry leaders*
 - To improve the cooperation with the **developing countries**
- To develop **bi-regional cooperation**
 - Joint large scale infrastructures (ESFRI, Roadmaps,...)
 - Asia-Europe schools, joint lab., workshop centers
- To deal with **education and training, gender imbalance** (physics needs women)
- To promote **synergies** between different fields of physics and between physics and **other research fields**: *biology and health, environment, energy.*



The First Asia-Europe Physics Summit ASEPS 2010

Tsukuba (Japan)

- 200 participants from 30 countries,
- 100 posters, more than 50 talks and addresses



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<http://aseps-blog.blogspot.com/>

ASEPS Blog

ASia-Europe Physics Summit

ASEPS



First Summit - Tsukuba
2010

Slideshow



ASEPS web sites

ASEPS <http://aseps.kek.jp>

ASEPS Wiki

<http://aseps.in2p3.fr>

Search This Blog

THURSDAY, APRIL 22, 2010

First ASEPS, Tsukuba (Japan)

The First Asia-Europe Physics Summit (ASEPS) was held in Tsukuba, March 24-26, 2010

More than 200 participants from 30 countries have attended. 100 posters and more than 50 talks and addresses have been presented.

⌘ Introduction talks ([D. Perret-Gallix](#)) and ([Mitsuaki Nozaki](#))

⌘ Round-table: "*Physics Towards Science and Innovation, ASEPS: Goals and Means*" [minutes](#), [video](#)

⌘ All talks are available [here](#)

⌘ Posters booklet ([web](#), [pdf](#), [slideshow](#))

⌘ ASEPS Conference [site](#)

⌘ ASEPS "[Tsukuba Declaration](#)" signed by the [EPS](#) and [AAPPS](#) Presidents

⌘ ASEPS a [feature story](#) from the [KEK site](#)

⌘ First [ASEPS web site](#)

⌘ [ASEPS Wiki sites](#)

⌘ Contact: aseps@kek.jp

This First Summit has been an exciting event marking the start of a stronger Asia-Europe cooperation on basic physics research and on physics applications to societal needs and issues like energy, environment, health

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The ASEPS Statements

First Asia Europe Physics Summit
24-26 March 2010
Tsukuba, Japan

Definitions

Acronyms

ASEPS: Asia Europe Physics Summit

Regions

In the following Asia stands for Asia-Oceania and Europe includes Russia and the former USSR states.

The Participating Parties

Participating Parties means members of national and international organizations or institutions attending ASEPS.

Physics Research

In the following Physics or Physics Research stands for all research related to physics – from basic and knowledge research to applications of physics to other fields of research including energy, environment, biology and health sciences.

Statement I: Objective

The Participating Parties call for strengthening existing cooperation and implementing new programmes in physics research between Asia and Europe to reach a balanced cooperation at the world level.

Statement II: Task Force

To meet the objective in Statement I, the Participating Parties ask the organisers of ASEPS, notably the Association of Asia Pacific Physical Societies (AAPPS) and the European Physical Society (EPS) to form a task force whose main objective will be to examine: roadblocks to Physics research cooperation and actions to overcome them and an appropriate structure to develop and coordinate the Asia-Europe cooperation.

Statement III: Scope

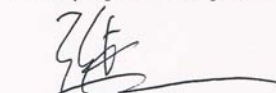
The Participating Parties encourage the task force to address as a priority the policy and structure needed to create and manage international research platforms, the participation of developing countries, the education and training of young researchers, the outreach and dissemination of physics to society.

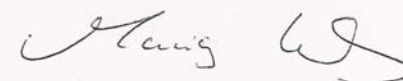
Statement IV: Best Practice

The Participating Parties encourage the task force to discuss and gather comments and advice from other countries on the above issues.

Statement V: New Participants

The Participating Parties encourage other similar organisations to support the work of the task force.


Jie Zhang
President of AAPPS


Maciej Kolwas
President of EPS



Task force Missions

- To examine:
 - **Roadblocks** to Physics research cooperation and actions to overcome them
 - an **appropriate structure** to develop and coordinate the Asia-Europe cooperation
- To act as the **Executive Committee for ASEPS'11**



TASK force Membership

- Europe
 - Maciej Kolwas (EPS President, Poland)
 - Martial Ducloy (SFP President, France)
 - Karlheinz Meier DPG International relation, Germany)
 - Denis Weaire (IOP, UK)
 - Italy ? In contact with Luisa Cifarelli (SIF, President)
- Russia
 - Vladimir Kadyshovsky (RAS, Russia))
- Asia
 - Gui Lu LONG (Tsinghua Univ. China)
 - Seunghwan Kim (Postech, Korea)
 - Tohru Motobayashi (Japan PS)
 - India ? In contact with Rohini godbole
 - Australia ? In contact with Geoffrey Taylor
- Tsukuba 1st Summit co-presidents:
 - M. Nozaki (KEK, Japan)
 - D. Perret-Gallix (CNRS, France)



ASEPS Organisation

Information, communication and Strategy

National ASEP Committees

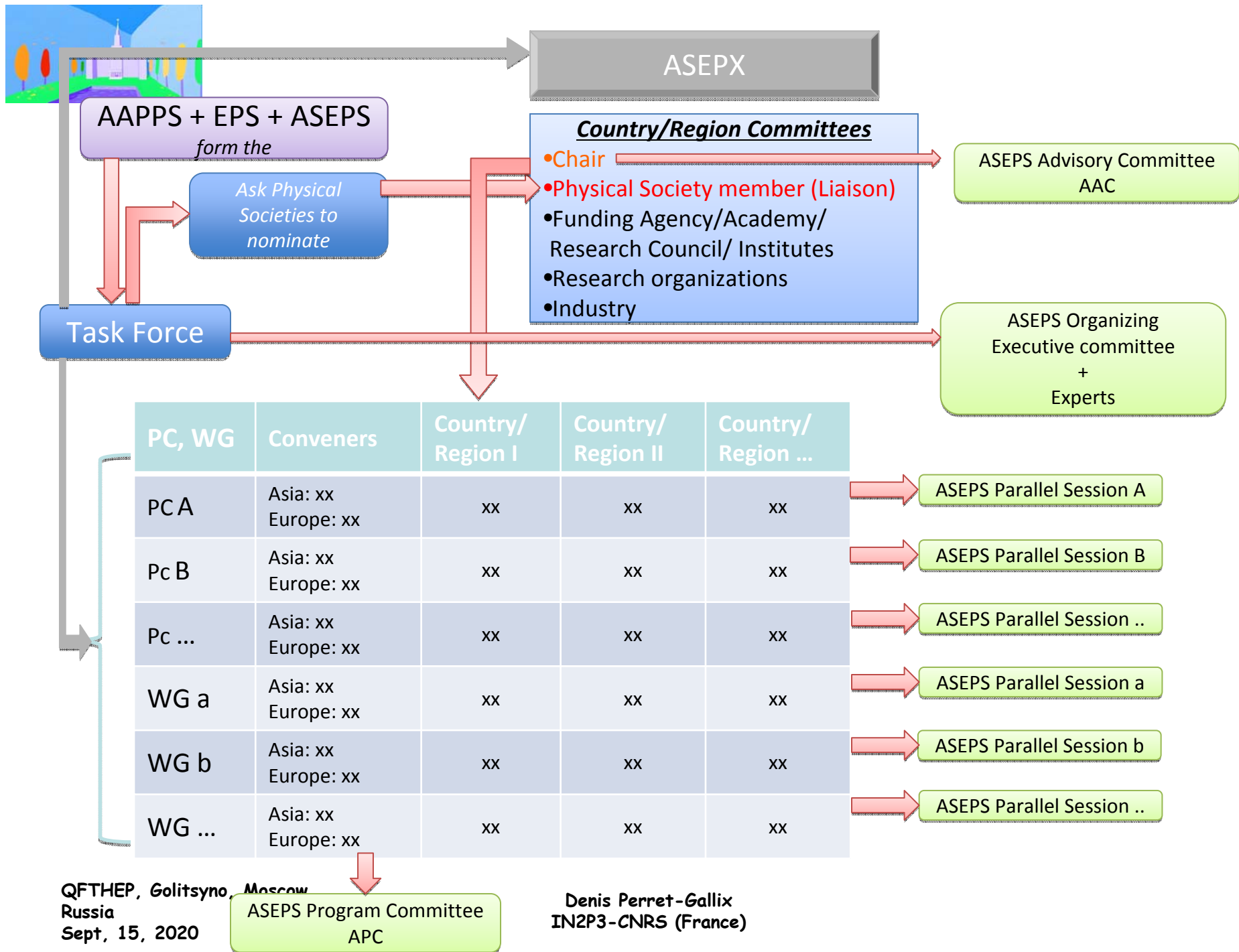


ASEP executive board

ASEP Summit

ASEP_{ysics} Committees

ASEP Working Groups





National ASEPS Committee

Each Partner country forms a National ASEPS Committee

Membership: Nb no limit

- Decision-makers (ministry (research, foreign affairs), academy of science)
- Scientists
- Representatives from the large national institutions
- Industry

Organisation:

- President
- Secretaries

Charge:

- To discuss national strategies for Europe-Asia Cooperation
- To assist ASEPS executive board to organize the Summits



Problem-Solving Working Groups

- **WG1:** Large scale science platforms for future projects
- **WG2:** New initiatives for inter-disciplinary and innovative frontier Research
- **WG3:** Developing countries and emerging economies involvement, Training and nurturing young scientists.
- **WG4:** Removing barriers and creating new opportunities in international cooperation between Europe and Asia.
- **WG5:** Enabling, improving Dialog (scientists, decision makers, industry, society)



Physics Committees

- 01 **Particle Physics**: Astroparticles, future accelerators, related theory
- 02 **Nuclear Physics**: High power proton acc., Radioactive beams, nucl. Fusion/fission
- 03 **Astrophysics/Astronomy/Space**: Physics instruments, Physics in Space, Physics for Space
- 04 **Atomic/Molecular**:
- 05 **Laser/Optics**: High power lasers, Compact lasers, Photonics,
- 06 **Condensed matter**: High-*t_c* Superconductors, high magnetic fields
- 07 **Plasma Physics**: On Earth and in the cosmos,
- 08 **Material/Analytical**: New materials including nano-materials and the analysis equipments: synchrotron radiation, (X)FEL, neutron sources
- 09 **Bio-medical Physics**: Instruments like MRI, Ion/Hadron therapy, quantum physics in basic processes
- 10 **Earth and environmental**: Climate change, disaster prediction/alert,
- 11 **Energy related Physics**: Fusion and fission energy, new solar cells, advanced wind and hydro technologies
- 12 **IT/Computational Physics**: Data GRID, Massive simulations
- 13 **Social/Humanity/Education**



Tsukuba Declaration

- Definitions Acronyms:

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Statement V: New participants

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The second Summit ASEPS'11

- October 26-29, 2011
 - 4 days (2 parallel, 2 Plenary)
- EPS general conference: satellite to ASEPS
- Location: **Wroclaw** (Poland)
Presidency of Europe



Wrocław: A perfect destination to host your event



Choose Wrocław!

Fot. W. Jurewicz

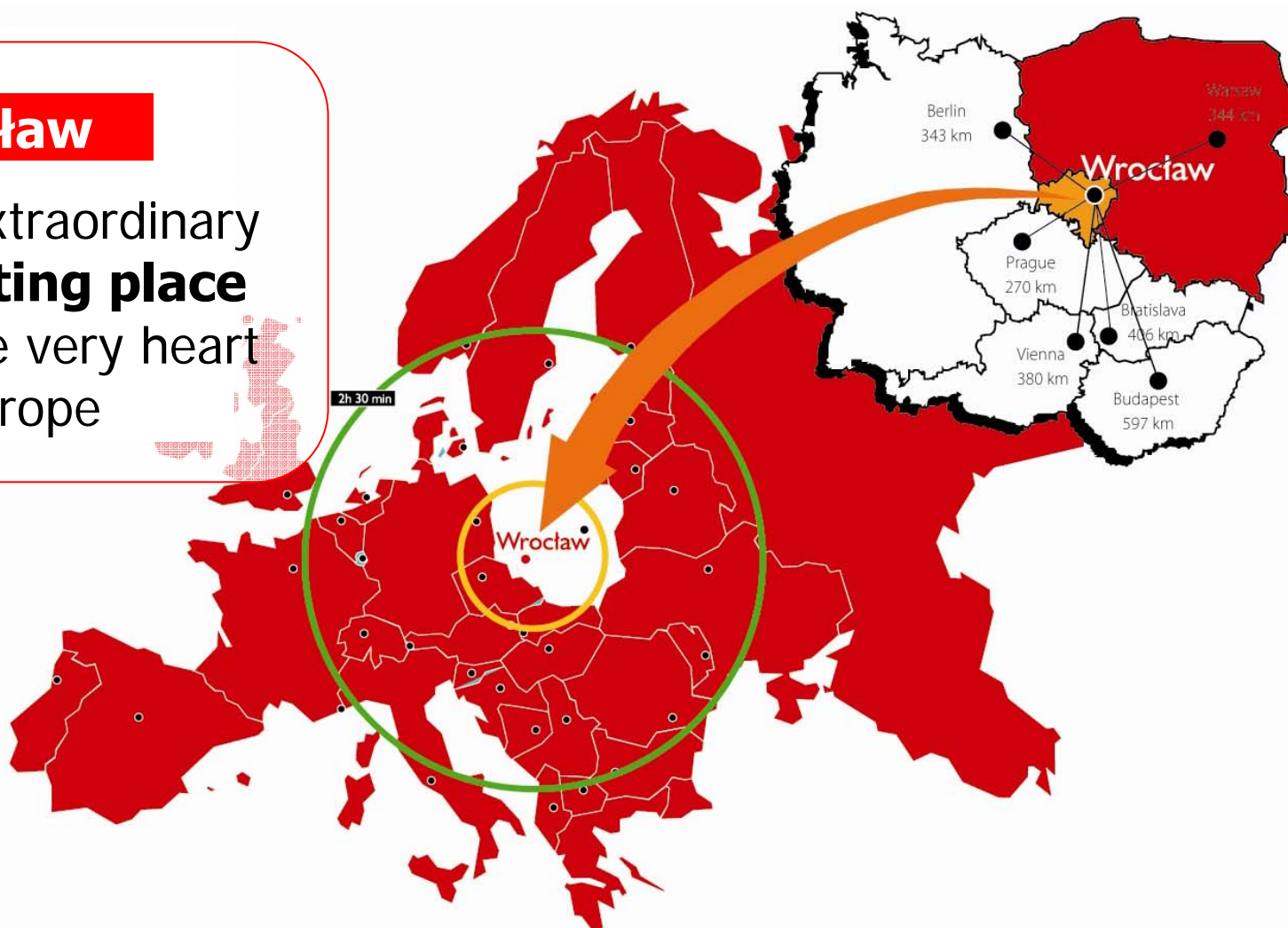
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IN2P3-CNRS (France)



Wrocław

An extraordinary
meeting place
in the very heart
of Europe



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Additional slides



Problem-Solving Working Groups

WG1

Large scale science platforms for future projects

- How to organise regional and inter-regional large scale projects ? (mega science programs)
- May some of the major infrastructures be shared between the 2 regions in a world-wide framework ?
 - The [ESFRI](#) list in Europe and the various 10-20 years roadmaps both in Europe and Asia
- How countries should be involved
 - treaties, specific agreements, commitment, simple MOU, ...?



Problem-Solving Working Groups

WG2:

New initiatives for inter-disciplinary and innovative frontier research

- How to foster more interdisciplinary cooperation to explore new frontiers and to nurture creativity and innovation ?
- How to build research networks on topics involving many research fields?
- How to transfer research knowledge to other research fields and to the industry so as to contribute solving the scientific/societal needs (energy, environment, health issues...) ?



Problem-Solving Working Groups

WG3:

Developing Countries and emerging economies Training and nurturing young scientists

- How to run training activities: through international schools, Euro-Asia research training centres, ...?
- How to involve developing countries in basic research?
- How to support national projects in the developing countries?
- How to involve developing country researchers in international large scale programs?



Problem-Solving Working Groups

WG4:

Removing barriers and creating new opportunities in international cooperation between Europe and Asia

- How to remove the many barriers that are slowing down efforts to setup international programs? In particular due to:
 - The regulations in importing/exporting apparatus for science research, the tax exemption on materials and equipments exchange.
 - The different systems of the many funding agencies involved in supporting an international project.
 - The lack of special international researcher status
- What formal structure could manage and support the ASia-Europe Physics cooperation
 - Would a specific fund help ?
 - How would it be managed ? (scientific committee, Board ?)
 - Would it be under which body ? (ASEM, Euro/Asia Horcs, ...)
 - Who would be the sponsors (public ?, private ?)



Problem-Solving Working Groups

WG5

Enabling or improving communication

- Between scientists, decision makers, industry, society
- Between existing organisations in a Asia and Europe (i.e. Nupecc, ANPhA;)



Strong Academic Centre

- **135,000** students
- Over **20** higher education institutions
- **10** Nobel Prize winners
- **Openness** and hospitality



Fot. www.sxc.hu

Qf
Russia
Sept, 15, 2020

IN2P3-CNRS (France)



STRONG ACADEMIC CENTRE



University of Wrocław	42,500
University of Technology	29,000
University of Economics	17,000
University of Environmental and Life Sciences	10,000
Medical University	3,500
Others	32,500
Total Students	134,500

OTHER PUBLIC INSTITUTIONS

- The University of Physical Education
- The Academy of Fine Arts
- The Karol Lipinski University of Music
- The Land Forces Military Academy
- The Papal Faculty of Theology
- The L. Solskiego State Theatrical School

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STRONG ACADEMIC CENTRE



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PRIVATE INSTITUTIONS

- The Lower Silesian Education TWP High School
- The High School of Social Psychology – Faculty of SWPS based in Wrocław
- The High School of Trade
- The „Edukacja” Management High School
- The High School of Finances and Management
- The High School of Liberal Arts
- The Wrocław Higher School of Philology
- The „ASESOR” Lower Silesian Public Services High School
- The International Logistic and Transport High School
- The High School of Banking
- The High School of Physiotherapy
- The Higher School of Management and Marketing
- The „COPERNICUS” Information Technology and Management High School in Wrocław

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WROCLAW RESEARCH CENTRE EIT+

- Established in **2007**
by city and 4 universities

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Accommodation Facilities in Wrocław

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WROCLAW

Wrocław the meeting PLACE

Multimedia Fountain by Regional Centre of Business Tourism



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IN2P3-CNRS (France)

Convention Bureau

Wrocław



Wrocław the meeting place



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IN2P3-CNRS (France)

Convention Bureau

Wrocław



Wrocław the meeting place



WROCLAW

Cruises

on the Odra River

Fot. www.sxc.hu

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WROCLAW

Botanical & Japanese Gardens



Fot. www.sxc.hu

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Wrocław the meeting place

WROCLAW

Cathedral Island

Fot. www.sxc.hu

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Convention Bureau

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CONFERENCE VENUE:
Regional Centre of Business Tourism
at the Centennial Hall in Wrocław

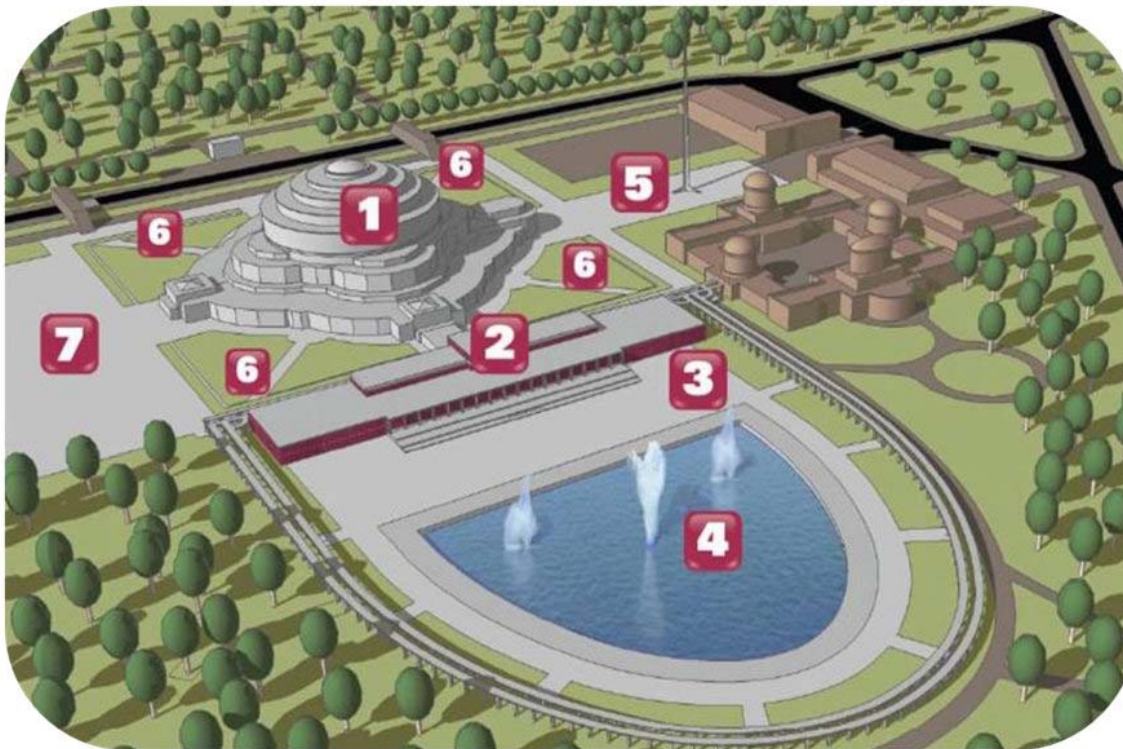


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The Centennial Hall Complex



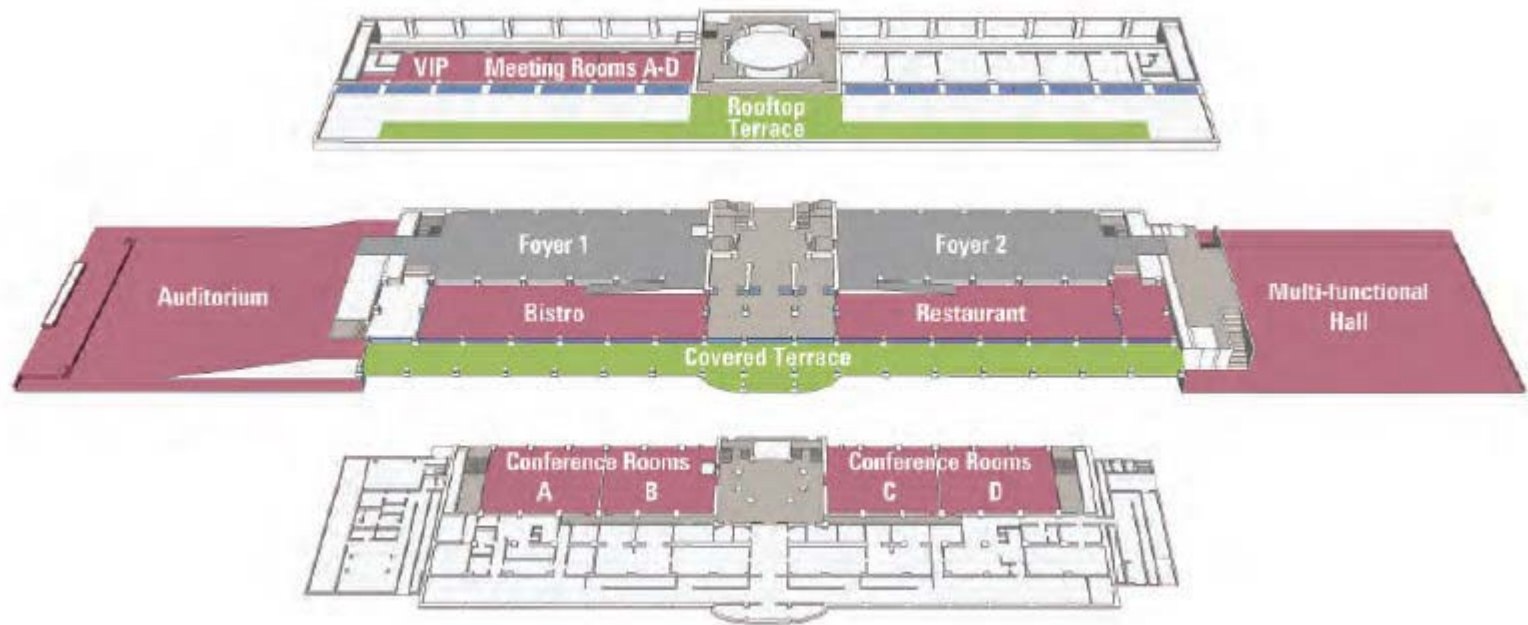
1. Centennial Hall
2. Regional Center for Business Tourism
3. Open Space in the Pergola
4. Multimedia Fountain
5. Main Square in front of Centennial Hall
6. Highly Adaptable Green Spaces
7. Parking Lot

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The Regional Centre of Business Tourism



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Additional Remarks

- ASEPS is today between Asian and European **countries** on the way to a more global Asia Europe **regions** cooperation
- ASEPS, an **Asia-Europe Initiative** is meant to become **global** (already open to Africa, America as observers)
- ASEPS Training and education (*Asia-Europe schools: Particle Physics, Microscopy, ...*)
- ASEPS a forum with topical sessions (*Future B-Factories, ONSA, Asia-Oceania Neutron scattering association, ...*)
- ASEPS to be promoted to: industry, politics (parliaments, ...)
- ASEPS to involve more young researchers and women.
- ASEPS web site:
 - Wiki: <http://aseps.in2p3.fr> ... to be improved ...
 - First ASEPS: <http://aseps.kek.jp>
 - Blog: <http://aseps-blog.blogspot.com/>
 - ASEPS Newsgroup ??



Copernicus Airport Wrocław

- **10 kilometers** from the city centre
- Connections **with major transfer hubs**: Frankfurt am Main, Munich and Copenhagen
- **2008 – 2011**: Airport modernization, construction of a new terminal

Fot. www.airport.wroclaw.pl

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Basic facts

- **City Area: 293 sq. kms**
- **Population: 640 thousand**
- **Population of agglomeration: 1 million**



Fot. W. Jurewicz

Russia
Sept, 15, 2020

Denis Tchernykh
IN2P3-CNRS (France)



Fascinating City

- Over **1000 years** of history
- **Young population**
- **Openness** and hospitality



Russia
Sept, 15, 2020



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Existing Hotels in Wrocław			
Qty	Category	Rooms	TAC
4	*****	535	1038
8	****	984	1896
22	***	1377	2577
4	**	340	653
3	*	247	498
41	TOTAL	3483	6662

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The Granary, 5* Hotel

New Hotel Investments in Wrocław

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Hilton Garden Inn, 4*



The Grape, 5*



Hilton, 5*

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**Numerous new
hotel investments**