OUTLINE

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Polish Academy of Sciences is:

- a corporation of scholars. Poland has over 15,000 professors - only 350 may be the Members of the Academy

- research performing institution currently with 69 Research Institutes active in all fields of science and humanities.
• 5 Divisions
• 8 Territorial Branches
• 69 Research Institutes
• 7 Research Centers abroad
• in future – 1 University?
• 9 Auxiliary Units: libraries, archives, museums…
### Research Institutes in numbers

<table>
<thead>
<tr>
<th>Division</th>
<th>Number of Institutes</th>
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<tbody>
<tr>
<td>I Humanities and Social Sciences</td>
<td>14</td>
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<tr>
<td>II Life Sciences</td>
<td>19</td>
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<tr>
<td>III Physical and Earth Sciences</td>
<td>18</td>
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<tr>
<td>IV Technical Sciences</td>
<td>13</td>
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<tr>
<td>V Medical Sciences</td>
<td>5</td>
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<td><strong>TOTAL</strong></td>
<td><strong>69</strong></td>
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▪ 79 bilateral agreements with foreign partners from 44 countries;
▪ representing Polish research community in 68 international organisations;
▪ funding over 900 of research stays or study visits per year;
▪ 2 International Institutes based in Poland
Research Centres Abroad

The Polish Academy of Sciences maintains 7 Research Centres abroad: Berlin, Brussels, Kiev, Moscow, Paris, Rome and Vienna.

Their role is to facilitate contacts with the local research community, and to promote Polish science abroad.
Excellence in Science Initiative

• Launched in 2016 to strengthen and support the Polish participation in the ERC

• Provides help to researchers based in Poland or abroad, who want to apply for ERC grants with Polish host institutions
• Launched in January 2017
• Member of the EURIAS network; 22 institutes based in a number of EU countries
• Focused on Humanities and Social Sciences
• Funding 5 or 10 month stays in Poland for min. 12 incoming researchers per year
• Promotes participation of SSH in H2020 and FP9
• Currently 1600 PhD Students enrolled in PAN Research Institutes
• Highly fragmented management structure
• PhD awarded by individual Research Institutes

**Aiming for:**

• Up to 3000 PhD Students
• PhD Awarded by the PAN Research University
• Research based PhD courses
• Strong international dimension (Scientific Council, Election Committee, Staff and Students)
PAN regularly formulates position statements on policy issues via its **Committees** and the **General Assembly**
The policy advice process may be initiated:

- **bottom up** from individual researchers to the Committees or the PAN President,
- **top down** from the PAN President to the Committees and Divisions.

In the current term of office PAN has published its position statements on: *Migrations (2015)*, *Vaccinations (2016)*, and we are currently working on the issue of *Biodiversity Protection (2017)*.
Points raised during debates are published in the form of position statements and in the *ACADEMIA Magazine* (http://science-online.pl/)
Research Institutes – Highlights and success stories
The CCB proton beam is used within a special rotating gantry, allowing for treatment of complicated cancer cases (eg. uveal melanoma). In addition to medical applications, it has been designed for research in the field of nuclear physics, radiobiology, dosimetry and medical physics.
KEZO Centre (Energy Conversion and Renewable Resources)

One of the most modern research centers in Europe focused on the use of renewable energy.

Conducts research on renewable resources, renewable and unconventional energy sources, biofuels, etc.
Gravitational waves carry information about their origins and about the nature of gravity. Physicists have concluded that these gravitational waves were produced during the final moments of the merger of two black holes to produce a single, more massive spinning black hole that is 21 times the mass of the sun.
Simons Semesters in Banach Center – a 5 year research and training program in Institute of Mathematics. Since 2015 the Institute is an awardee of the Targeted Grants programme of the Simons Foundation.
Poland's first research satellites

The PAN Space Research Center, Poland's only unit dealing with human activity in space, developed and assembled subcomponents of the first Polish research satellites, which are now in the Earth’s orbit.
Polish contribution to Rosetta mission

MUPUS penetrator: The instrument penetrates the comet’s surface and sends measurement data back to Earth.
Polish scientists conduct research from pole to pole: The Institute of Biochemistry and Biophysics maintains a year-round research station at **East Antarctica**, while the Institute of Geophysics conducts research in Hornsund **Polish Polar Station** on **Spitsbergen**.
Each year the *Oceania* research vessel of the Polish Academy of Sciences operates in the Atlantic, the North and the Baltic Sea.

Currently these excursions serve researchers to carry out 13 international programmes.
PAS Public Engagement

• Science Festivals
• Museum Night
• Warsaw Book Fair
• Open Lectures
• Exhibitions
• School contests
THANK YOU!

more information available at www.institution.pan.pl