

MISSIONS TO HABITABLE WORLDS

Meeting organized by COST TD 1308 action and MTA CSFK Budapest, 28 October, 2015

Opening talk by László Szarka

Head of Department for Research Institutions, MTA Secretariat





Library and Information Centre, etc.

MTA Public Body ("Learned Society")

appr. 15 thousand members, including 3000 MTA doctors and 365 academicians

MTA Research Network

appr. 3000 researchers

MTA Secretariat governed by the Assembly and the President

total staff: appr. 175



THE MTA RESEARCH NETWORK IN 2015

The only research network dedicated to discovery research in Hungary

RESEARCH INSTITUTE
NETWORK

RESEARCH GROUP NETWORK

- 10 RESEARCH CENTRES

- 5 RESEARCH INST.

- "ACADEMY" RESEARCH GROUPS AT UNIVERSITIES AND OTHER PUBLIC INSTITUTIONS: 89

Since 2009, 62 Lendület ("Momentum") RG-s were founded in the institute network (57 are still active)

- LENDÜLET "MOMENTUM" RG-S AT UNIVERSITIES: 47

15 units, 2500 researchers

137 groups, 500 researchers



Research centres and research institutes of the Hungarian Academy of Sciences The "new" (2012-) structure: a dozen strategic priorities

enabled research staff, premises

ASTRONOMY AND EARTH SCIENCES

Sopron, Budapest

125

ECOLOGY

Tihany, Vácrátót, Budapest

AGRICULTURE

Martonvásár, Budapest

BIOLOGY

Szeged 225

BRAIN RESEARCH

Budapest 80

NATURAL SCIENCES

Budapest

320

ENERGY SCIENCE

Budapest

180

"WIGNER" PHYSICS

Budapest

250

NUCLEAR RESEARCH

Debrecen 105

MATHEMATICS

Budapest 80

HUMANITIES AND ARTS

Budapest

310

SOCIAL SCIENCES

Budapest

155

ECONOMY AND REGIONAL STUDIES

Pécs, Budapest

145

LINGUISTICS

Budapest

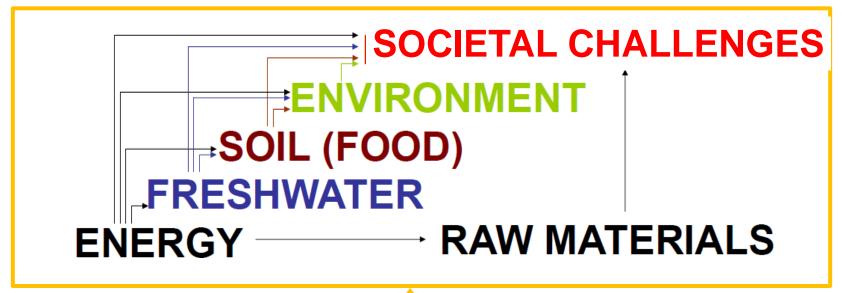
95

INFORMATICS

Budapest

140

Summary of natural and societal challenges: International Year of Planet earth (Szarka&Brezsnyánszky 2009, Szarka 2014)





GEO-BIO EARTH SYSTEM

In the order of importance by Richard Smalley (2003, https://smalley.rice.edu/content.aspx?id=246):

1. energy, 2. drinking water, 3. soil, 4. environment,

5. poverty, 6. terrorism&war, 7.disease, 8.education, 9. democracy, 10. population



From a perspective of a geophysicist in this situation it is absolutely relevant to deal with

Missions to Habitable Worlds,

among others, in order to understand how our Planet Earth can be kept habitable.



Allegory of the Academy

Painting by Johann Ender in 1831. A gift of István SZÉCHENYI to the Academy. It shows his wife, Crescence SEILERN.

"Post nebula Phoebus" (Lat) "Borúra derű" (Hun) "After a storm comes a calm" (Eng)

