

Research and Development Strategy for the Republic of Moldova by 2020. Science reform

Acad. Ion Tighineanu,
First Vice-President of the Academy
of Sciences of Moldova



S3 DESIGN LEARNING WORKSHOP

Chisinau,
18-19 February, 2016



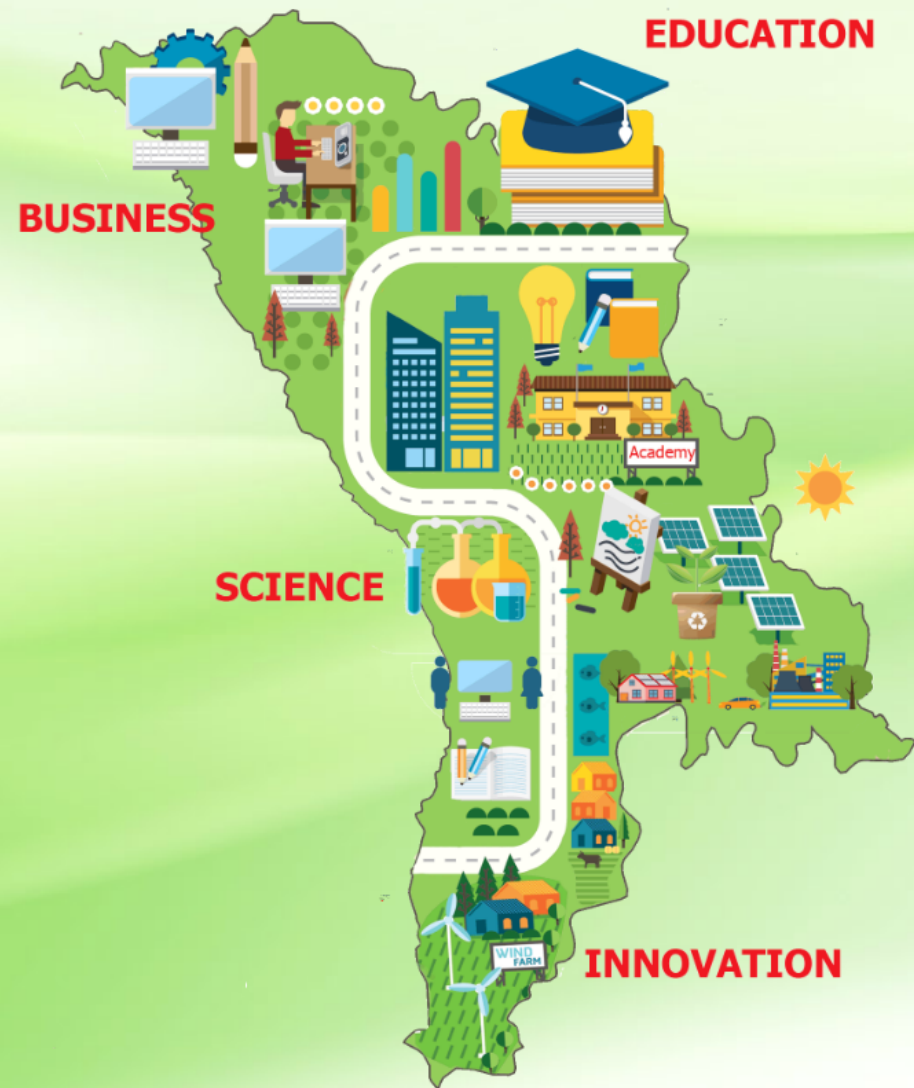
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2008

Official request
for the status of
an Associated
country

2009

Creation of the
National
Association
Committee of
RM to FP7

2010

Additional
protocol – P.C.A.
for participation
at EU programs

2011

Moldova-EU
technical
negotiations
round

2012

**Moldova – first
CIS country
associated to
FP7**

2013

Formal request
for the status of
Associated
country to
H2020

2014

Launch of
H2020 in the
Eastern
Partnership in
Moldova

11 October 2011
Signing of the Memorandum of
Understanding for the association
of Moldova to the **EU's Seventh
Research Framework
Programme, FP7: 2007-2013)**



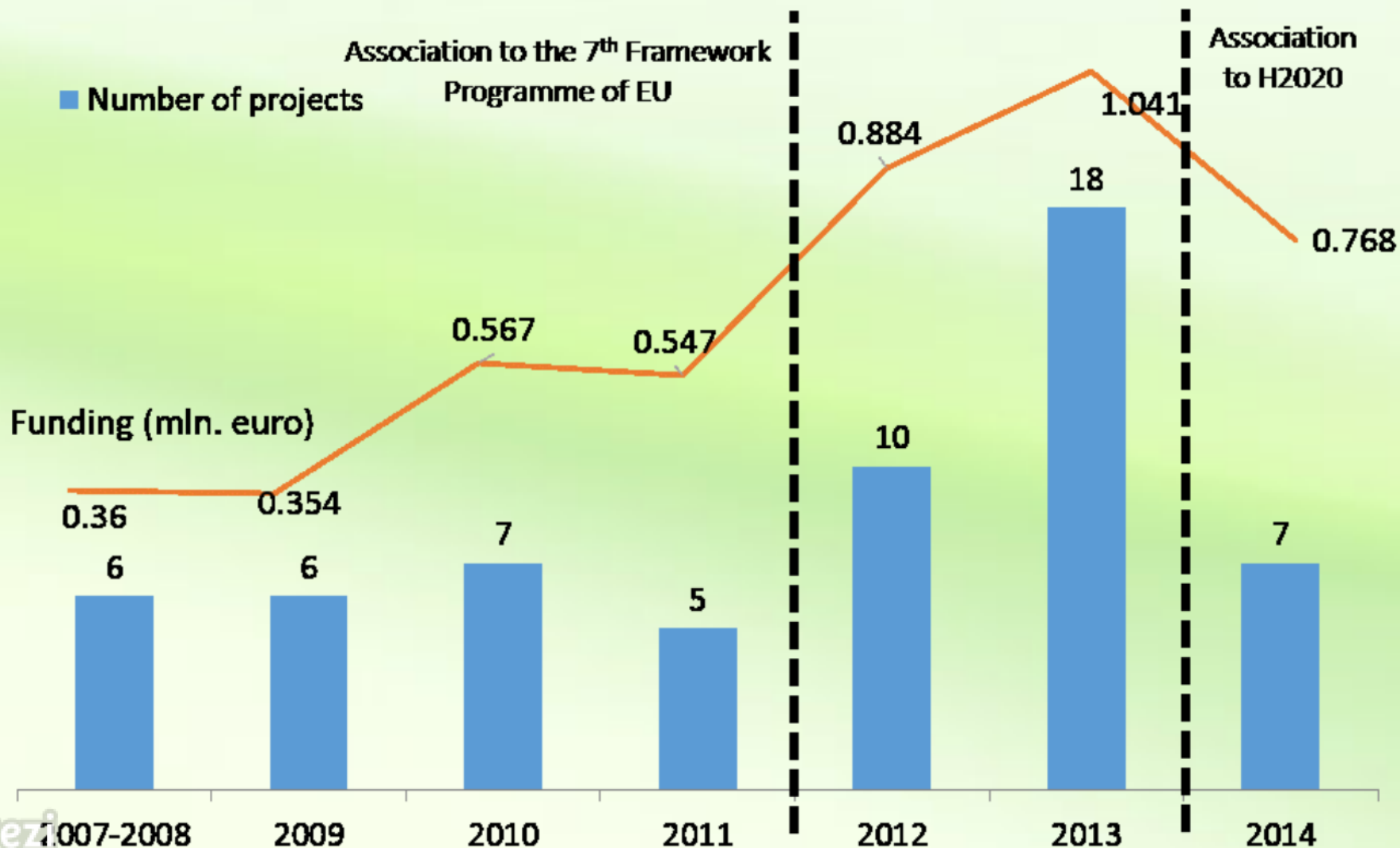
1 July 2014
Signing of the Association
Agreement for Moldova to the
**EU's Research and innovation
Programme, Horizon 2020:**
2014-2020



Dynamics of FP7 Projects in Moldova

FP7: 337 Proposals, 58 Projects > 4,15 mln EUR

H2020: 45 Proposals, 7 Projects > 0,736 mln EUR



Participation in H2020

130 Proposals with participation of Moldova submitted by the following institutions: 68 R&D Institutions, 56 Universities, 27 SMEs, 19 NGOs, 17 Other organizations

15 projects awarded, 1 project coordinated

Participation of EaP Countries in H2020/e-CORDA

Country	Population, mln	Nr. proposals submitted	Nr. proposals supported	Nr. proposals/ 1 mln population	How much time Moldova is more active
Armenia	2,97	60	9	20	1,95
Azerbaijan	9,61	29	2	3	13,0
Belarus	9,33	108	16	12	3,25
Georgia	4,43	84	10	19	2,05
Moldova	3,31	130	15	39	
Ukraine	42,56	425	53	10	3,9

Implementation of the Knowledge Paradigm

Educational Development Strategy - Education 2020

Ensure the sustainable development of education in order to educate integral, active, social and creative personalities, increase access to education and efficiency of resource use, ensure life long learning, integrate into the european educational area.

Research&Development Strategy - Knowledge Moldova 2020

Develop a system capable of creating scientific knowledge and excellence in order to increase competitiveness of national economy and welfare of people.

Innovation Strategy - Innovations for Competitiveness 2020

Contribute to the increase of international competitiveness of the country, the creation of a knowledge based economy, through the development of human resources, capacity building for Moldovan business to absorb, generate and diffuse innovation and establish a close connection to research.



New code on education

- Build lifelong learning,
- Develop a system of educational, social, scientific, professional values,
- Create skills for integration on the labor market and achievement of professional career,
- Educate the resistance to continuously changing conditions, accept and promote innovations in different fields,
- Build the skills of entrepreneurship, activism, self-development and self-training



Current status of science and innovation

Main research and innovation normative documents:

Code for Science and Innovation of Moldova from 31.07.2004

ASM - Government Partnership Agreement adopted each 4 years

Academy of Sciences of Moldova - main governing authority in science and innovation domain

The need for reform and focus on the following objectives:

1. Attainment of research performance;
2. Funding of the research area in the amount of not less than 1% of GDP;
3. Ensuring attractiveness and accessibility of research vacancies for talented young people.



Concept of reform of science and innovation

1. Establishment of the National Agency for Research and Innovation (ANCI).

ANCI will represent the central administrative authority, responsible for the development and implementation of policies in the field of research, development and innovation, distribution of budgetary allocations for the research, development and innovation projects based on competition.

The Agency will organize the whole process of selection, evaluation and funding of research, development and innovation programs and projects in the context of public competitions. ANCI, in partnership with the ministries, the Academy of Sciences, and the Council of Rectors, will develop The National Programme of Research and Development, which will become the main instrument for the promotion of State policy in this field.

2. The creation of the National Council for Research and Development (CNCD) as an advisory body to the Prime Minister, without it being a legal entity, which consensually examines and recommends to the Government draft policy projects in the field of research, development and innovation and will ensure communication and cooperation between the main factors involved in the development and implementation of policies in this field at the governmental level, as well as at the entrepreneurial and the scientific community levels.

Concept of reform of science and innovation

3. Reconstruction and development of administration and self-administration structures of the Academy of Sciences of Moldova.

ASM will be an autonomous public institution of national interest, in the field of research-development and innovation, a legal entity governed by public law, which functions on principles of self-administration.

ASM will have organizations subordinated to the Academy, the General Assembly being the representative body, and the executive body – the Presidium of the ASM.

Within the framework of the ASM, the science departments and institutes, established under the ASM statute, will organize a public examination of the projects of research, development and innovation and of their results at the request of the National Agency for Research and Innovation, the founders and organizations from the science and innovation field. Any research organization in the country can join the ASM.

ASM will be financed from the budget, according to a distinctive compartment of the Law on the State budget, and from other alternative sources. Under amendments to the code, the ASM will handle only financial resources intended for institutes within the Academy and will remain to be the organizer of post-doctorate studies.

Under the Code of Education, the prerogatives to deal with the policies in the doctorate field are excluded from the jurisdiction of the ASM.

Concept of reform of science and innovation

4. Revision of the mechanism of financing the science by introducing the following ways of funding research.

A. Institutional Funding granted by the founder necessary for basic expenses related research, development and innovation of the public organization, including overhead costs, remuneration of a number of researchers, the auxiliary staff, the managers of the organization and of its subdivisions.

B. Funding on a competitive basis represents the funding of the research based exclusively on public competition, depending on performance, organized by the Agency for all the organizations in the field.

C. Co-funding of research, development and innovation from two or more sources, including on the public-private partnership basis.

5. Introduction of the performance assessment and certification.

The reorganization of the National Council for Accreditation and Attestation (CNAA) for the establishment of an independent authority for evaluation and quality assurance.

6. Ensuring the regulatory framework that would stimulate the engagement of young people in scientific positions.

The simplification of the conditions for the employment in scientific positions, for the promotion of young people in scientific positions, depending on performance. This will contribute to increasing of the attractiveness of these positions and opportunities for the professional career development of the talented youth.

Excellence in Research

January 1, 2012, Moldova joins EURAXESS - Researchers in Motion;

Current Infrastructure:

15 EURAXESS Local Contact Points nominated within R&D Institutions

4 EURAXESS Service Centers across the country

Since 2013 the Academy is **implementing Charter & Code principles** in several selected R&D Organizations

First LOGO “Excellence in Research” was offered by the European Commission to the **University of the Academy of Sciences of Moldova** on **December 10, 2014;**



Fostering international cooperation

More than **41 bilateral scientific cooperation agreements** signed by ASM with partners from Europe, NIS and other countries

Since 2009, ASM managed more than **300 bilateral projects** with Belarus, Germany, France, Italy, Romania, Russia, Ukraine and STCU

Participation within ERANET and other Joint Calls:

FP7 Black-Sea-ERA.NET – Pilot Joint Call

FP7 SEERA-EI – Pilot Joint Call

FP7 ERA.NET-RUS-PLUS - Single Joint Call

H2020 Water Works 2014-2019 in Support of the Water JPI

BMBF Danube Region Call



Strengthening innovation

29 September 2014 - Moldova associated to EU's Competitiveness of Enterprises and Small and Medium-Sized Enterprises Programme (**COSME**) (2014-2020)

Current activities:

Best Innovative Student - Competition of innovative ideas.

Participants: students from schools, lyceums of Moldova from 2009

Top Innovation Awards

Participants: R&D from 2009

Best Innovative Project (JOP project)

Participants: young researchers from R&D

Technology Transfer Projects

Participants: R&D and SMEs from 2005

386 joint technology transfer projects

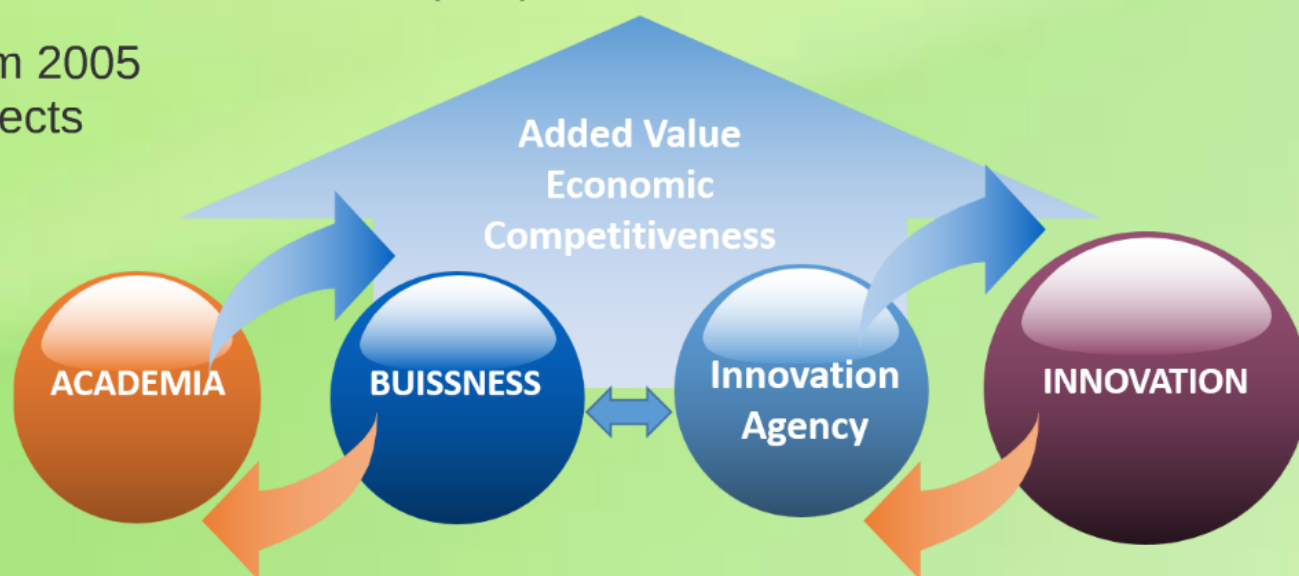
Future activities:

Implementation of Venture Capital - normative acts are in the process of development

Promotion of Innovation Vouchers (activity started within FP7 ENER 2I)

First Innovation Voucher Competition (IVC) in Moldova March 2015, .

19 March 2015 - Moldova joins Creative Europe programme for support to the culture and audiovisual sectors.



**Thank you for
your attention!**

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