



COSTA RICA
GOBIERNO DE LA REPÚBLICA



COLLABORATION FOR THE DEVELOPMENT OF THE NATIONAL R&D ECOSYSTEM IN COSTA RICA

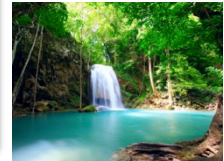
Federico Torres Carballo, PhD.

Director General of R&D

Ministry of Science, Technology and Telecommunications

Outline

1 Costa Rica: Generalities



2 S&T Ecosystem in Costa Rica



3 R&D Ecosystem in Costa Rica



4 R&D Information System Collaboration



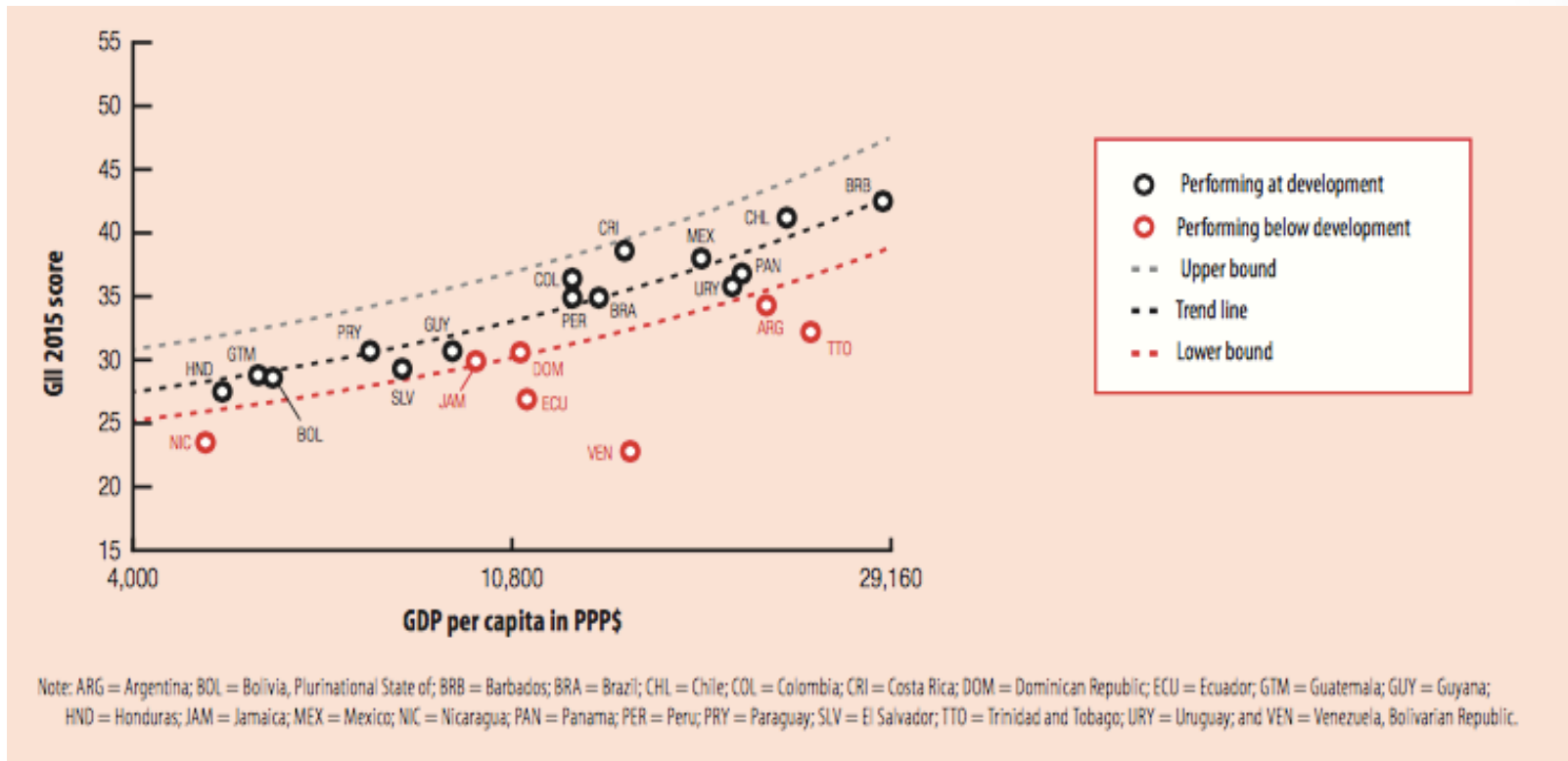
Costa Rica: Generalities



Costa Rica: Economic development

- ● **Costa Rica: A small open economy** that has made a significant transformation over the two last decades (1990-2010)
- ✓ GDP/capita: \$2,411→\$7,938
- ✓ Exports: \$2.2B→\$13.6B
- ✓ Main export: agriculture→ high-tech products
- ✓ Employment in agriculture: 25.9%→14.9%
- ✓ Population under poverty line: 8.45%→3.12%
- ● **Key strategy**
- ✓ Export promotion
- ✓ FDI based industrialization

Latin America and the Caribbean economies closest to the innovation achievers' threshold, 2015

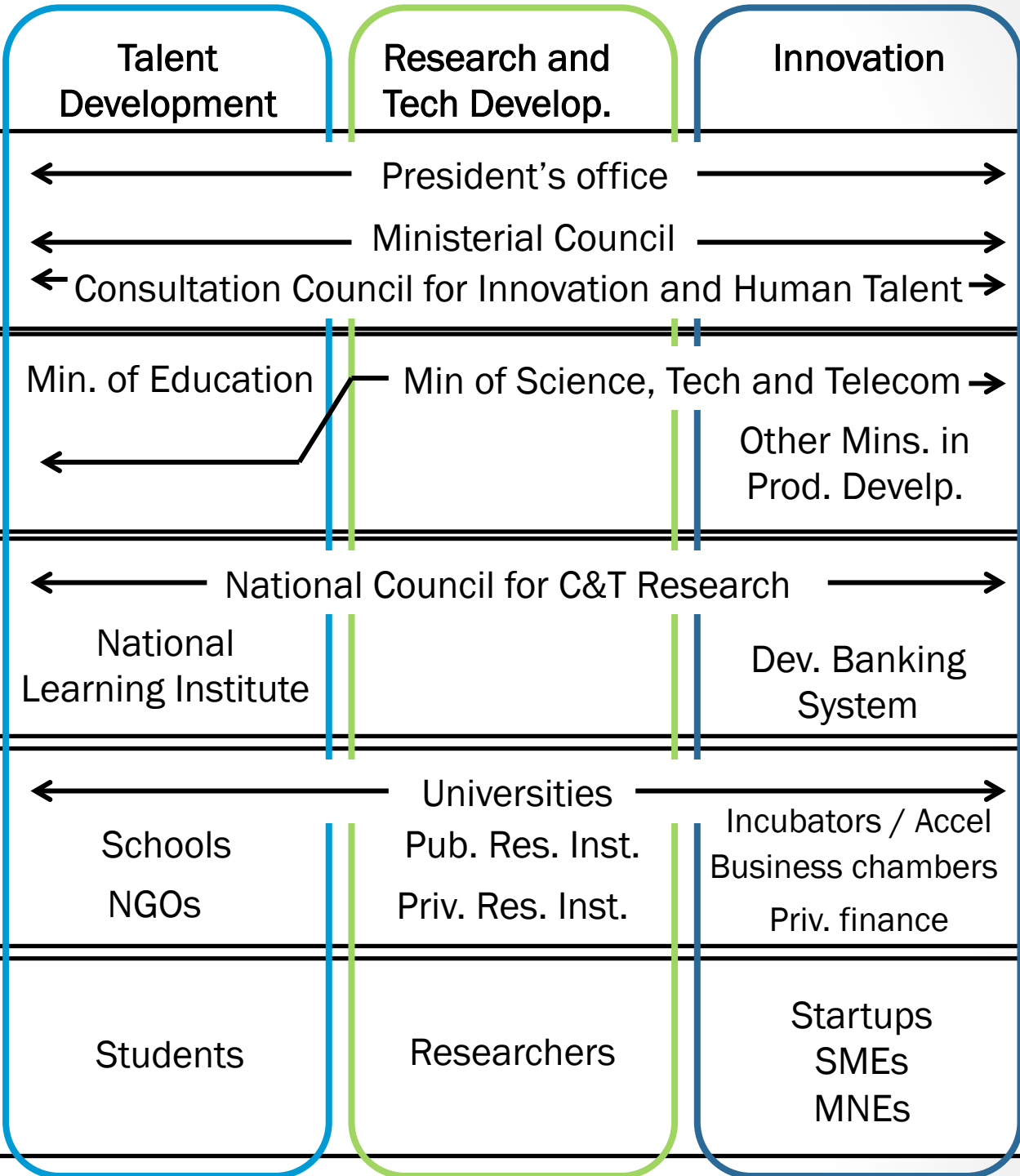


Source: WIPO/Insead, GII 2015

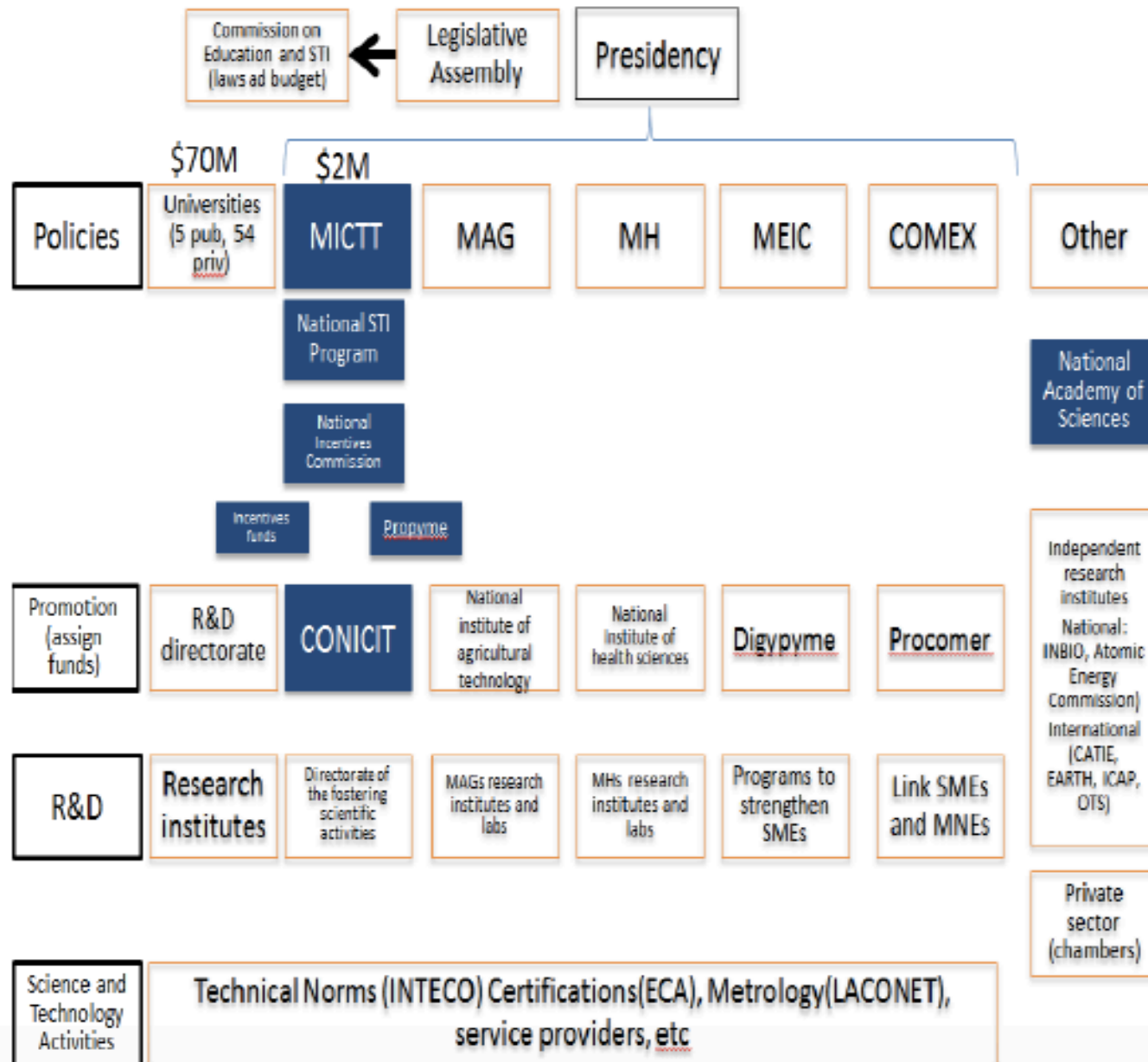
S&T Ecosystem in Costa Rica



STI system



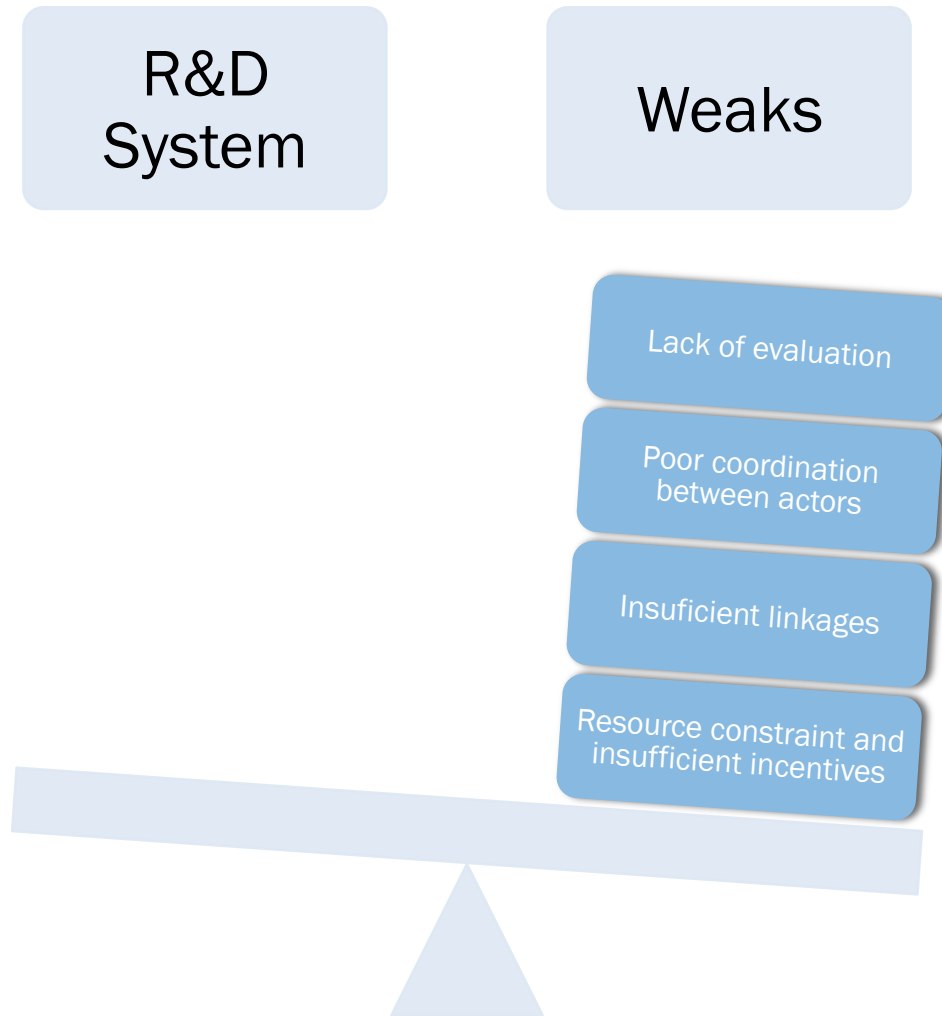
S&T System



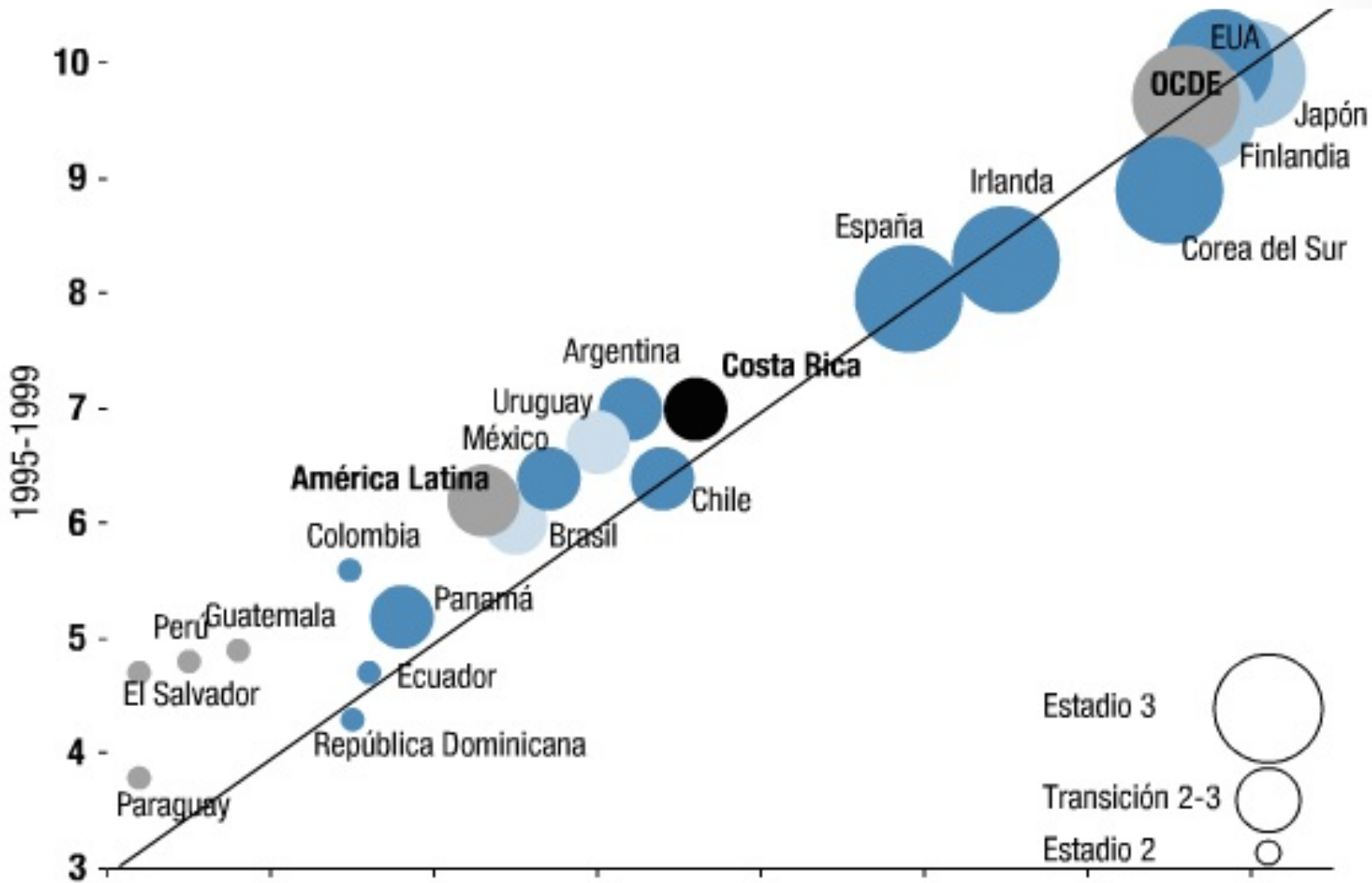
R&D Ecosystem in Costa Rica



Weaks of CR R&D System



Selected countries, patents by 100000 inhabitants.

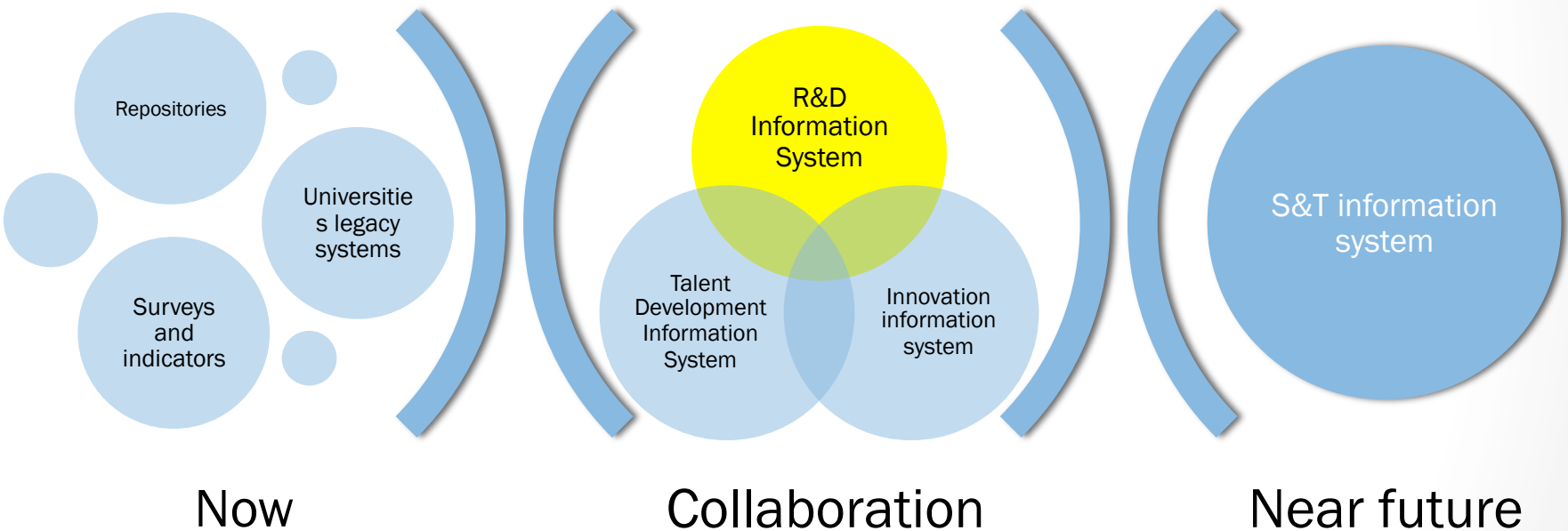


Source, Estado de la Nación, 2011

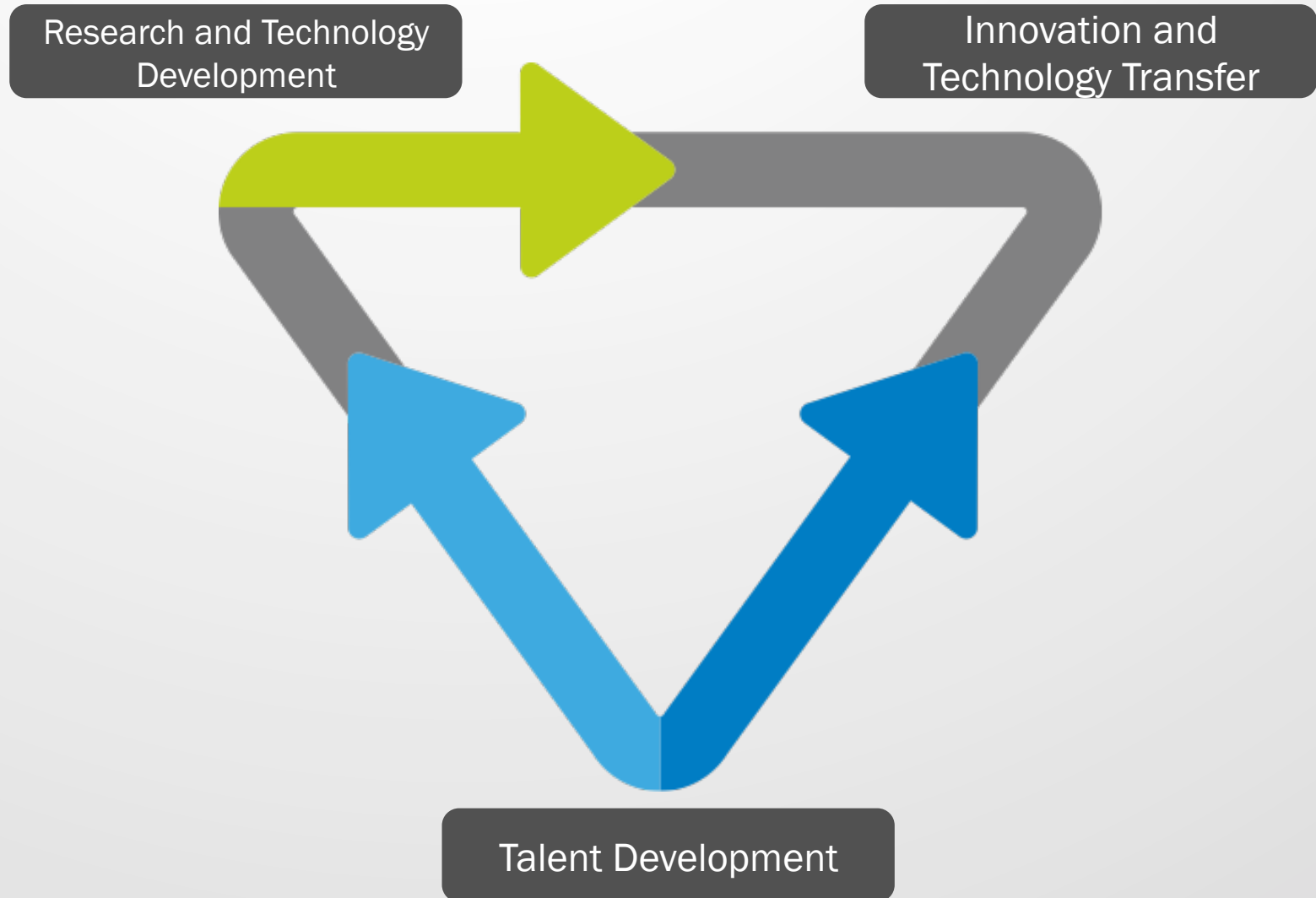
R&D Information System Collaboration



Process of collaboration



Three areas of focus



Talent Development

1

Digital literacy

Intelligent Community Centers

2

Fostering STI vocation

Math, science and robotics olympics
Science and Technology fairs

3

Vocational reskilling

Scholarships

4

Advanced skills in STI

Graduate STI Scholarships

Research and Technology Development

1

Research

Basic and applied research grants

2

Technology
Development

Ideation and rapid development

3

Networks 1

Events around S&T

4

Networks 2

Integrated STI system

Innovation

1

Innovation Culture

Training for students in methods, tools and culture

2

Talent attraction
S/W

Attraction of foreign talent in R&D+i

3

Innovation in SMEs

Innovation training and funds for SMEs

4

Technology transfer

Training and funds for tech-based innovation and entrepreneurship



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