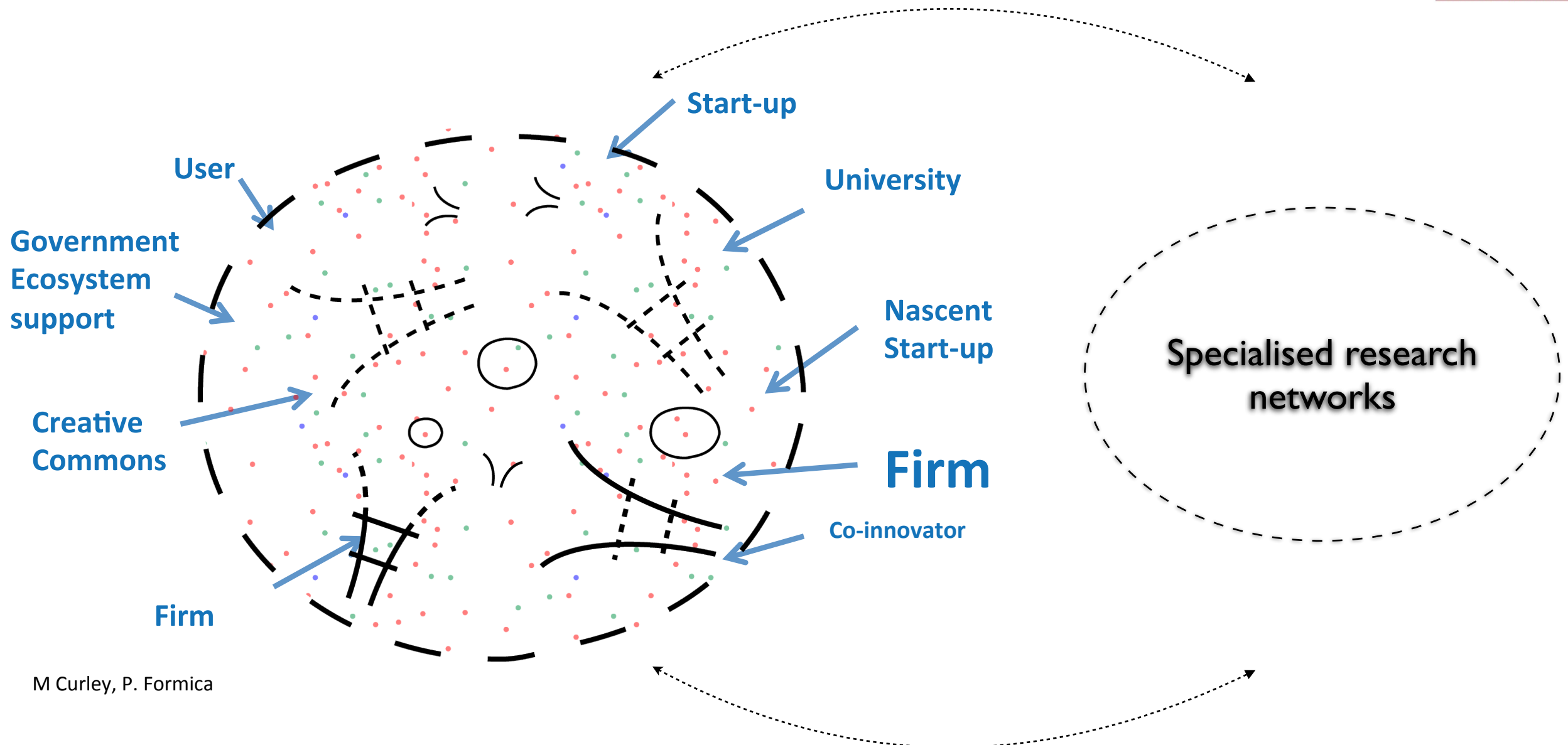


ASRT Specialised Research Networks (SRN) & Tech Alliances (KTA)



M Curley, P. Formica

long-lasting specialised Business-driven alliances.

Critical masses of scientific expertise

| | | | | |
|---------------------|----------------------|-------------------------|--------------|------------------|
| Electronics KTA | KTA Renewable Energy | KTA DLM in metallurgy | Textile KTA | Agri-Food KTA |
| Smart Factory KTA | TeDSAT1 KTA | Sinai DLM in metallurgy | Plastic KTA | KTA Desalination |
| Viral hepatitis KTA | High Purity Alumina | Raw Material KTA | Industry 4.0 | |

Energy, Water, Food Nexus
Smart irrigation
Wild harvesting (medicinal & aromatic plants)
Precision farming and remote sensing
Water management
Sustainable soil management

Deepen Local Manufacturing of Mineral and Metal Products in the Egyptian Industries

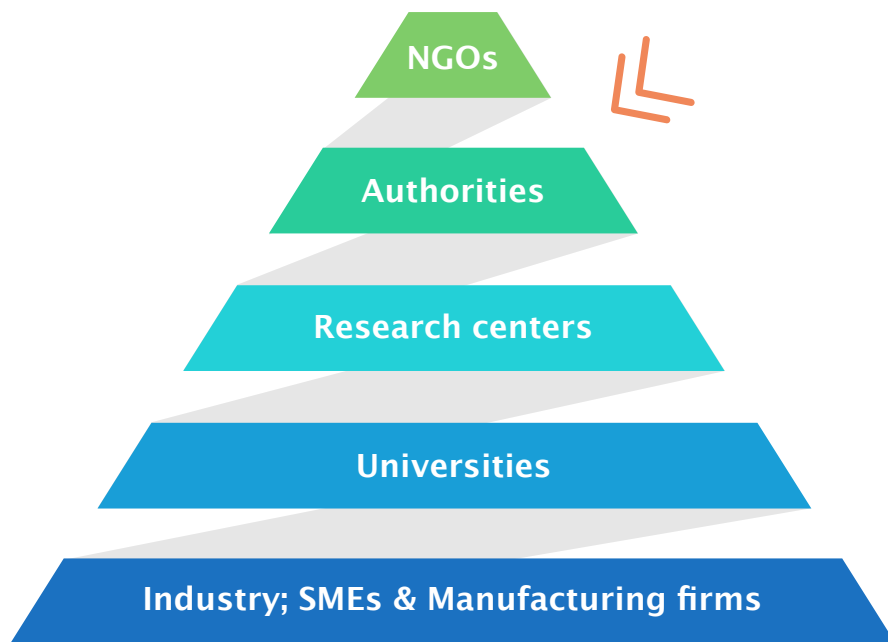
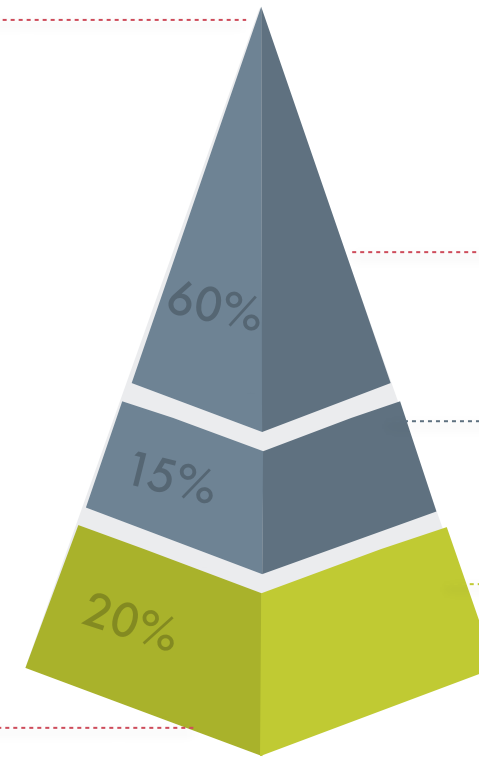
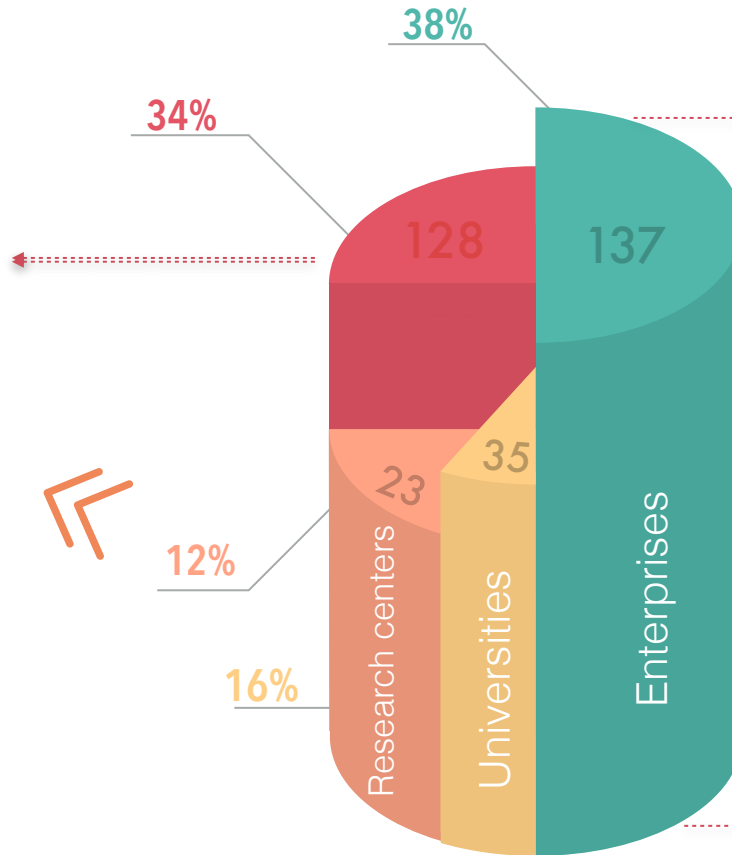
CMRDI •
British University of Cairo •
Helwan University •
Tebbin Research institute •
Industrial Modernization center •
H-Y Technology Co •
EL Nasr Mining Co •
Elnasr casting •
Engine Factory (AOI) •
Dots Egypt •
Oriental Weavers •
Federation of Egyptian Industries •
Orthomedica Company •
Ezz Flat Steel company •
Egyptian Ferroalloys company •
El-Nasr forgings co •
Egyptian International Aluminum
profile co •

To deepen and maximize the local manufacturing in the field of mineral and metal industries. The Alliance activities are distributed between 6 different tracks.

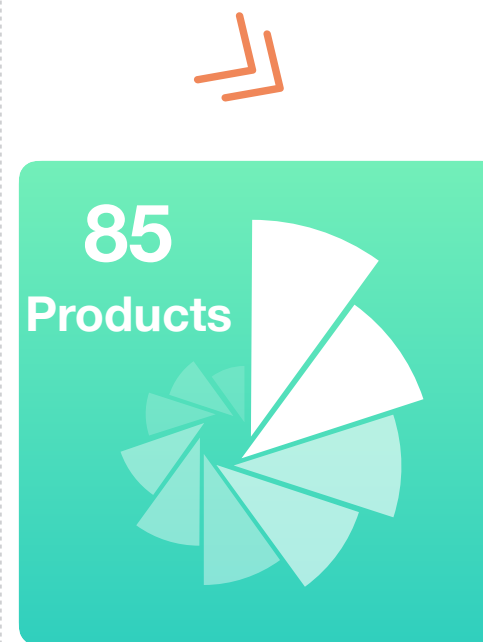
Production of cheap fertilizers from concentrates of low grade phosphate ores. -
Production of metallic spare parts for different industrial sectors -
Deepening the local manufacturing of highly demanded medical products using laser and additive manufacturing tools -
Production of high purity pig iron from rolling mill scale -
Local manufacturing of fully imported special steel products for Egyptian market -
Production of extrusion dies from Tungsten carbide powders. -

9,996,147.2 EGP, 2 Years

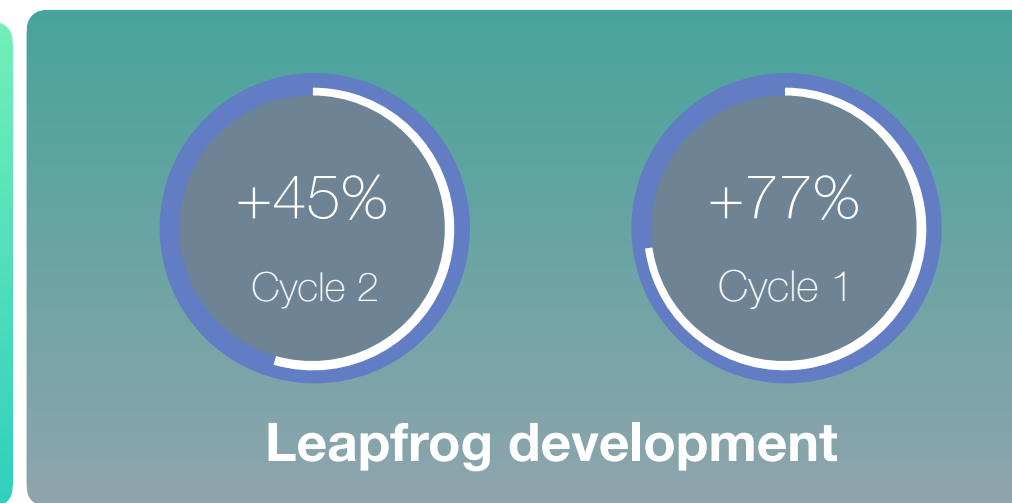




37% manufacturing firm



12.5% internal funding





التحديات

مسابقات يتم من خلالها الإعلان عن تحديات ومشاكل ملحة وضاغطة تواجه القطاعات الانتاجية والخدمية والجهاز



سوق الابتكار

قواعد بيانات ومنفذ تسويقي للحلول و الابتكارات تسمح لعملاء البنك بالبحث عن فرص مشروعات إستثمارية

خدمات الدعم

حزم مختلفة من الخدمات المجانية لرواد الأعمال والمبتكرين وخدمات متخصصة للجهات الداعمة



جهات دعم الابتكار

قواعد بيانات تشمل الجهات المانحة و الحاضنات و مكاتب نقل التكنولوجيا و مكاتب و وكلاء البراءات المعتمدين

شبكات الابتكار

شبكات متخصصة تهدف إلى تضافر الجهود وتوفير التنسيق اللازم بين الجهات المختلفة



محفظة التكنولوجيا

مبادرة تهدف إلى عرض المنتجات والابتكارات التكنولوجية الناتجة عن شركات بين القطاعين العام و الخاص



* Supporting women experts at the academia and scientific research domains in realising and addressing societal challenges while raising awareness of their role and activities in the society.

* Empowering young women social entrepreneurs (with specific focus on less-privileged sectors). The action focuses on the main societal challenges in Egypt: water scarcity, energy efficiency, health and food

- ✓ National Council for Women NCW –Household Women Program (برنامج المرأة المعيلة)
- ✓ Tahya Misr Fund + Naser Social Bank– Mastoura Program (برنامج مستورة)
- ✓ The Egypt Network for Integrated Development (ENID/El Nidaa) - Program B: Micro, Small and Medium Enterprises (MSME)
- ✓ Agricultural Bank of Egypt – Bent Misr Program for Household women (بنت مصر)

| Ash Sharquia (Delta) | Assuit/Sohag (Upper Egypt) |
|---|---|
| Composting and organic agriculture الزراعة الحيوية وتصنيع السماد العضوي | Sewing خياطة, Embroidery تطريز |
| Waste Recycling تدوير المخلفات | Selling clothes بيع ملابس |
| Fruits and vegetables processing, dairy products منتجات خضار و فواكه و الألبان | Furnishing, crocheting and Tailoring مفروشات وكروشيه وخياطة |
| Transportation and packing النقل والتعبئة | Manufacture of mat and ropes صناعة الحصير والحبال |
| Renewable Energy وسائل الطاقة الجديدة | Baking, Sweets and pastries حلويات ومخبوزات |
| Clothing and handicrafts الملابس والحرف اليديوية | Animal and chicken breeding تربيته مواشي و الدواجن |
| | Fruits and vegetables processing, dairy products منتجات خضار و فواكه و الألبان |
| Animal and chicken breeding تربيته مواشي و الدواجن | Waste Recycling تدوير المخلفات |
| | Building materials, construction مواد و مستلزمات البناء |
| (New) green social innovations, energy efficiency, wastewater management, desalination, quality and standardization | |



Incubation of **T**echnological and **I**nnovative ideas
through **l**everaging local resources and **A**cceleration



INCUBATION

TECHNOLOGY DEVELOPMENT

VALORISATION

SPINOFF



Examples





Energy, Water and Agriculture in the
South Mediterranean Neighbourhood

MEDITERRANEAN JOINT ACTION PLAN (JAP)

Addressing Water, Energy, Food NEXUS challenges
based on quintuple helix & open innovation approach



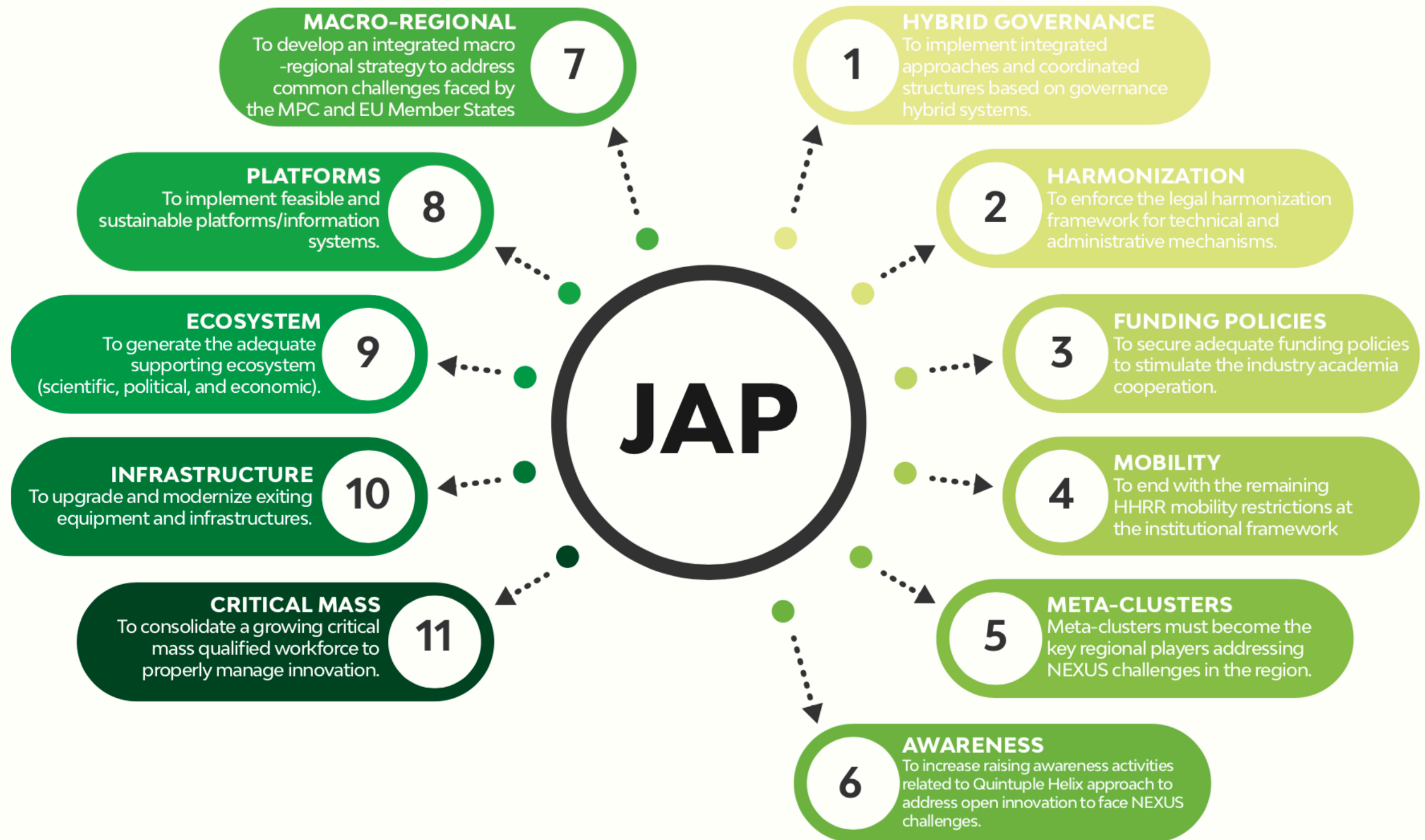
Co-funded by the Horizon 2020 Framework Programme of the European Union

Gustavo Pérez, Christoforos Perakis, Amr Radwan, Alberto Soraci, Mediterranean joint action plan based on quintuple helix, EU 5TOI, 2019

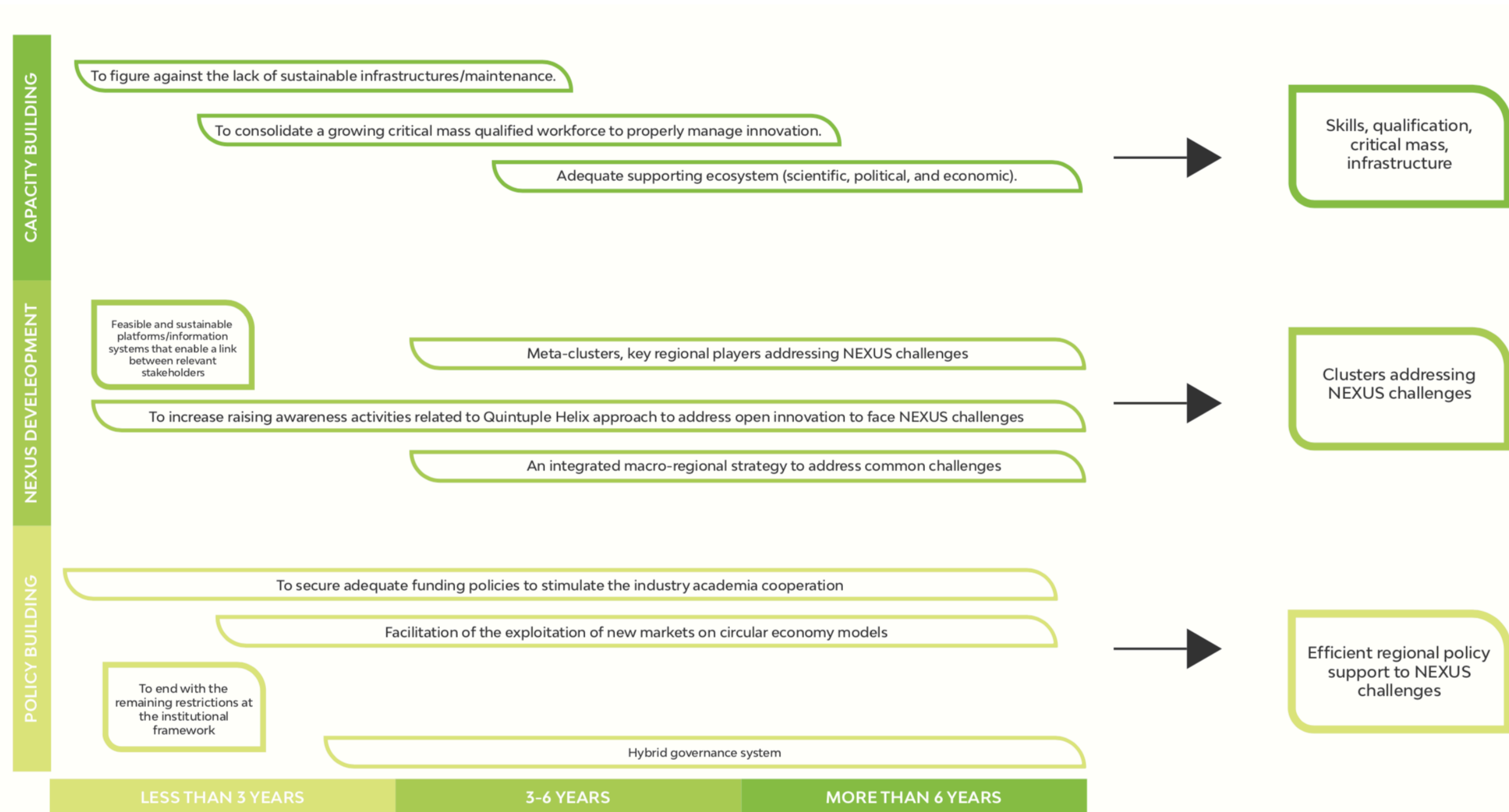
أكاديمية البحث العلمي والتكنولوجيا
Academy of Scientific Research and Technology



EASE OF IMPLEMENTATION

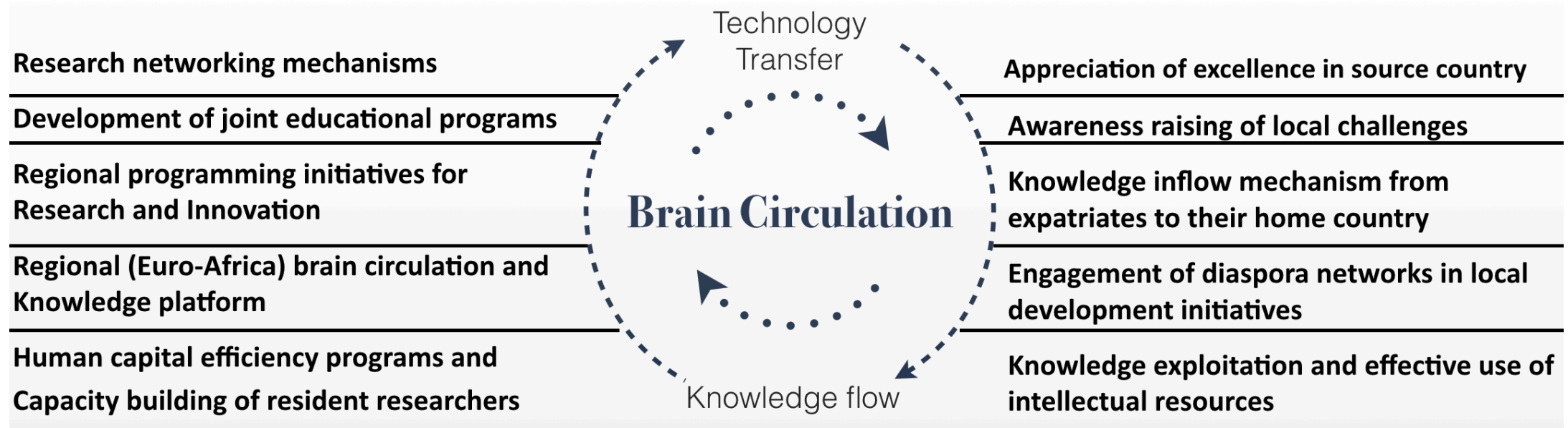


Priorities timeline



JESOR-Development

جسور التنمية



Amr Radwan & M.Sakr (2018) Exploring 'brain circulation' as a concept to mitigate brain drain in Africa and improve EU–Africa cooperation in the field of science and technology, South African Journal of International Affairs, 25:4, 517-529, DOI:



Thanks for your attention

Amr Radwan

radwan.Amro@gmail.com

amm@sti.sci.eg

