



Tunisian Republic
Ministry of Higher Education and Scientific Research



Sustainability of National Technology development & Transfer Systems

*Regional Forum
« National Knowledge and Technology Development
and Transfer Systems*



UN-House, Beirut-Lebanon,
27-29 November 2017

SUMMARY

- Brief historical overview of the NIS
- Description of the ANPR
- Main Transfer Technology (TT) projects managed by ANPR
- Advantages for establishment an NTTO in ANPR
- How can we make (TT) a sustainable system for the developpement of the sosciety through NTTO ?

BRIEF HISTORICAL OVERVIEW OF THE NIS

2001 -

- Technoparks creation
- Creation of [ANPR](#), CNEAR, and DGVR **(2010)**

1995

- **Orientation law** for Scientific Research, Creation of Scientific Research Structures

Before 1995

- Higher Education and Research capacity building
- Creation of INNORPI (1982)
- APII Creation (1972) ...



DESCRIPTION OF THE ANPR

- ❑ A public scientific and technical establishment with a financial and administrative independence.
- ❑ Under the authority of the Ministry of Higher Education and Scientific Research (MHESR).
- ❑ Established in 2008 and started its activities in 2010.

DESCRIPTION OF THE ANPR: MISSIONS

- ❑ Contribute to the implementation of national research programs;
- ❑ Support the creation of transfer technology offices,
- ❑ Attend public structures in the fields of intellectual property, promoting the results of research and technology transfer;
- ❑ Contribute to the establishment and animation of research consortia,
- ❑ Financial management of research projects,
- ❑ Intermediation between research structures, companies and foreign partners,
- ❑ Disseminating mechanisms related to the valorization of research results, technology transfer and the promotion of innovation concept;
- ❑ The exploitation of results related to scientific and technological scouting,
- ❑ Give opinion in which concern the acquisition, the maintenance and the exploitation of heavy scientific equipments .

DESCRIPTION OF THE ANPR: PARTNERSHIP

National Partners

- **Ministry of Higher Education and Scientific Research:** public and private universities, research structures, Doctoral schools, CNEAR...
- **Sectoral ministries:** Agriculture, health, Industry...
- **Ministries :** MAE, MDICI, MF...
- **Agencies:** APII, APIA, FIPA...
- **Central Bank of Tunisia**
- **Sectoral technical centers**
- **INNORPI**
- **Technoparks, Clusters and competitive clusters**
- **Inter-professional groupings**
- **Chambers of commerce**
- **Employers' organizations:** UTICA, CONECT...
- **Public Companies:** STEG, SONEDE, GC, CPG...
- **Private Companies:** TELNET, POULINA, Orange...
- **Acteurs de Financement de l'innovation:** Business Angels, SAGES, Wiki Start-Up, BFPME, CDC, BMN...
- **Civil Society**
- **Tunisian Diaspora**

International Partners

- **European Union:** DUE, CE, JRC, ETF...
- **United Nations:** Economic and Social Commission for Western Asia (UN-ESCWA), UNESCO, UNIDO
- **World Intellectual Property Organization (WIPO)**
- **OECD**
- **The World Bank:** PROMESSE
- **Regional association :** FEMIA
- **France:** MENESR, MEIRIES, CNRS, INRIA, ANR, ANRT, Agoranov, Instituts Carnot, IFT, AMU, ProtisValor, UPMC, CNAM, UM, UPVD, UNICE
- **USA:** Ministère du Commerce / Commercial Law Development Program (CLDP)
- **Germany:** GIZ, DLR Project Management Agency
- **Belgium:** ARES, EBN
- **UK:** Europe For Business (EFB)
- **Italy:** CESIE, U. Trento, U. Catane, Innova Bic...
- **Spain :** UIB
- **Japan:** Japan International Cooperation Agency (JICA)
- **Corea :** KOICA, STEPI, IICC
- **Ireland :** WIT
- **Algeria:** MESR, CDER, ENP, U. Tlemcen, U. Ouargla, U. Canstantine,
- **Marocco:** MESRFC, UCD, UM5, UMI

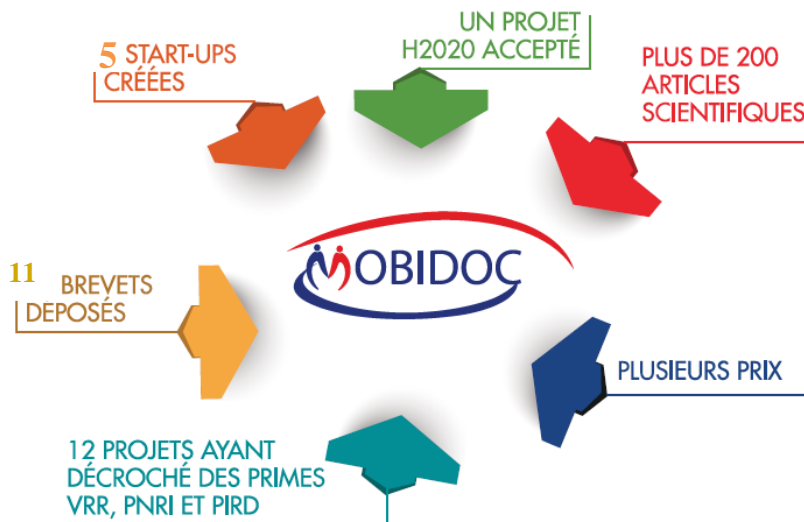
ROLE OF ANPR IN TT AND INNOVATION

- ❑ Communication and technology scouting: tunisie Innovation
- ❑ Capacities bulding for/by R&I
- ❑ Mobidoc: Mobility of reaserchers
- ❑ Technology transfer: TTOs
- ❑ Creation of innovative entreprise
- ❑ Intellecual property
- ❑ Technical assistance
- ❑ Financial Management of projetcs

MOBIDOC

The MOBIDOC is a mobility device (MOBI) for doctoral and postdoctoral researchers (DOC) to carry out applied research in the socio-economic environment according to two models and against remuneration payable as follows: 80% by the ANPR and 20% by the Beneficiary Organization (OB).

**Results 2012/2013 sessions MOBIDOC
(243 conventions, Doc & post doc)**



2017 Session MOBIDOC

Session 2017 - Doctorants

- 129 submitted files

Session 2017- Post-doc

- 129 submitted files

2018 Session MOBIDOC

Session 2018- Post-doc



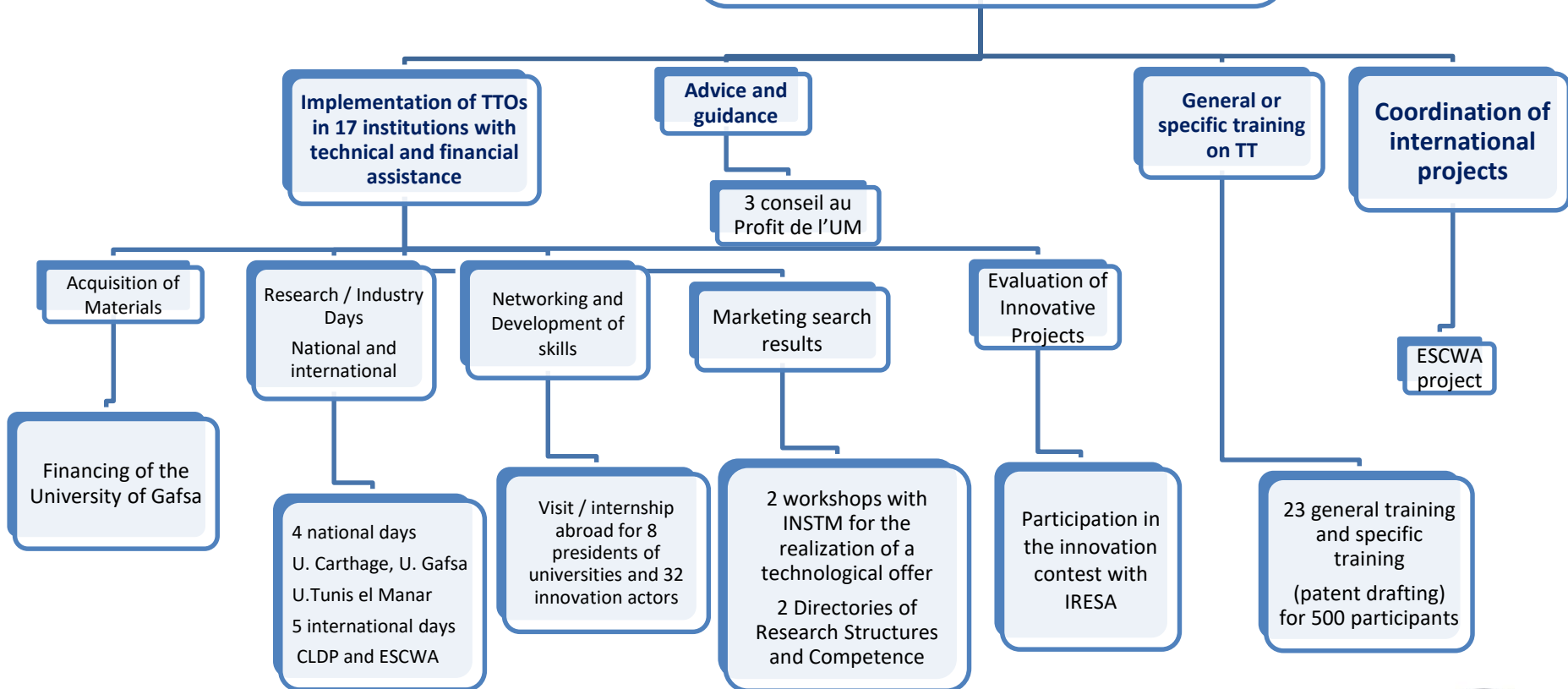
SUPPORT FOR THE CREATION AND MONITORING OF TECHNOLOGIE TRANSFER OFFICES (TTOs)

Signatures de 17 conventions avec:

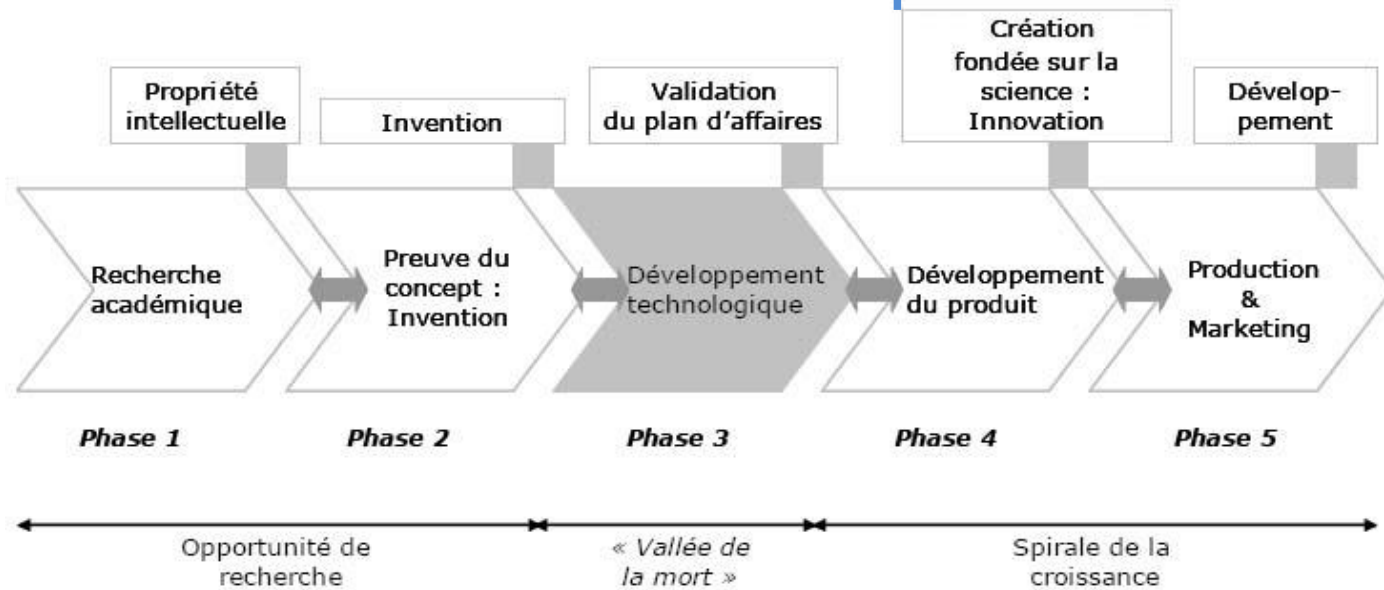
- 1- U. Tunis
- 2- U. Tunis el Manar
- 3- U. Manouba
- 4- U. Carthage
- 5- U. Jendouba
- 6 U. Kairouan
- 7- U. Gafsa
- 8- U. Monastir
- 9- U. Sousse
- 10- U. Sfax
- 11- U.Gabes
- 12- INRAP
- 13- IPT
- 14-DGET
- 15- IRESA
- 16-CRTE_n
- 17-CITET



SUPPORT FOR THE CREATION AND MONITORING OF TECHNOLOGIE TRANSFER OFFICES (TTOs)



Creation of innovative companies



- Business Model
- Business Plan
- Plan Marketing
- Stratégie entreprise
- Feuille de route

- Identification of the opportunity
- Development of the business plan - Identification of financing mechanisms.
- Accompaniment and technical assistance in the implementation of the company.



MAIN TT PROJECTS MANAGED BY THE ANPR



CLDP

COMMERCIAL LAW DEVELOPMENT PROGRAM

Partner

(2012-2016)

Promotion to the Development of an ecosystem of TT through TTOS

World Bank Project

Partner

(2017-2021)

Accreditation of the ANPR for training
Mobidoc
Spin Off
Support of the TTO



Coordinator
(2011-2015)

- ✓ Mobidoc: 243 contracts and 5 start ups and 67 reaserch contract employment
- ✓ Creation of TTOs
- ✓ Trainings in TT
- ✓ <http://www.anpr.tn/portail-tunisie-innovation/>
- ✓ Initiation for the création of 4 clusters
- ✓ Guides for the négociation of contrats and IP



Partner

(2015-2017)

[Establishing a National Transfer Technology Office](#)
[NTTO](#)

Program for supporting Eductaion, Mobility Research and Innovation (EMORI)

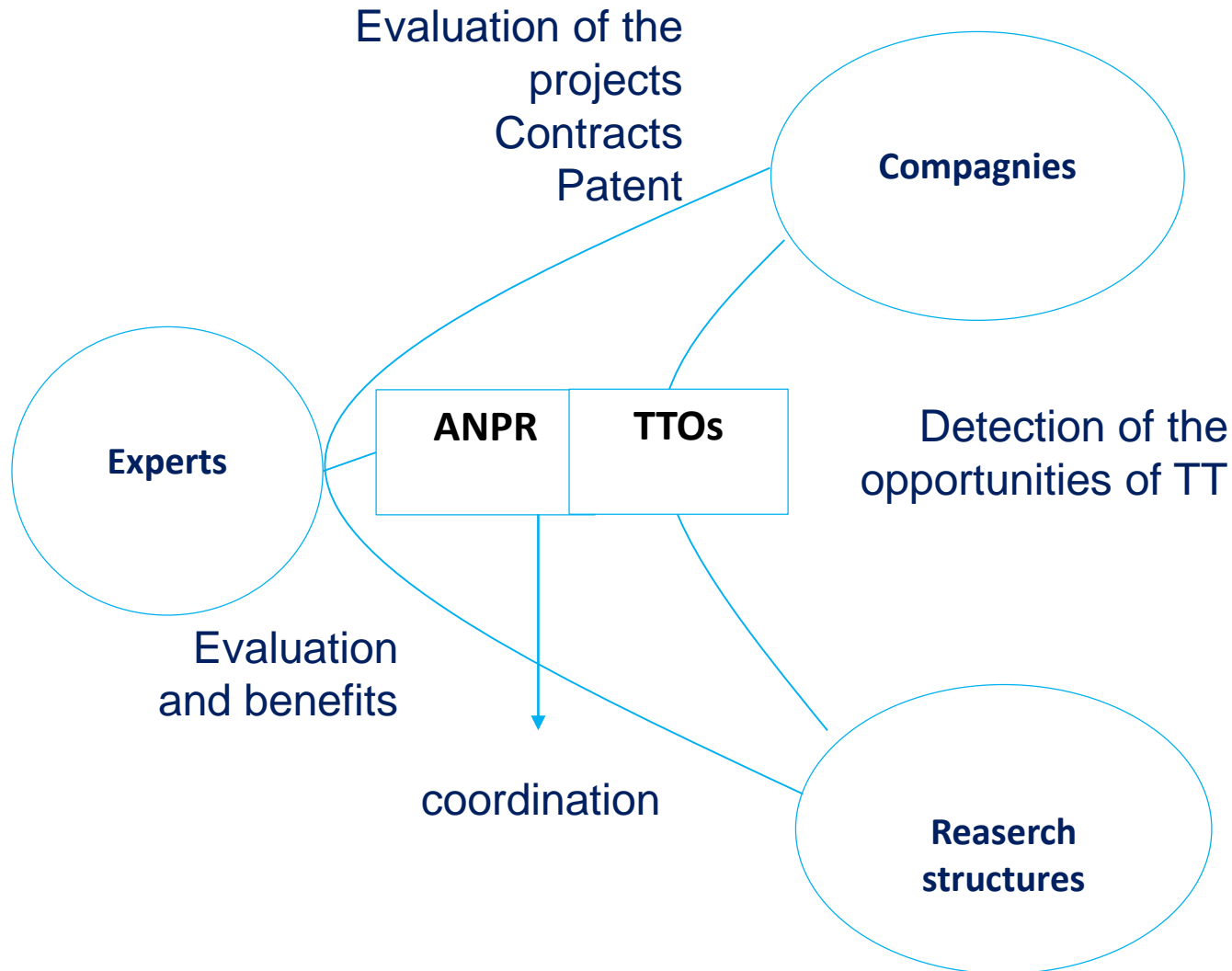
Partner

(2017-2021)

Mobidoc



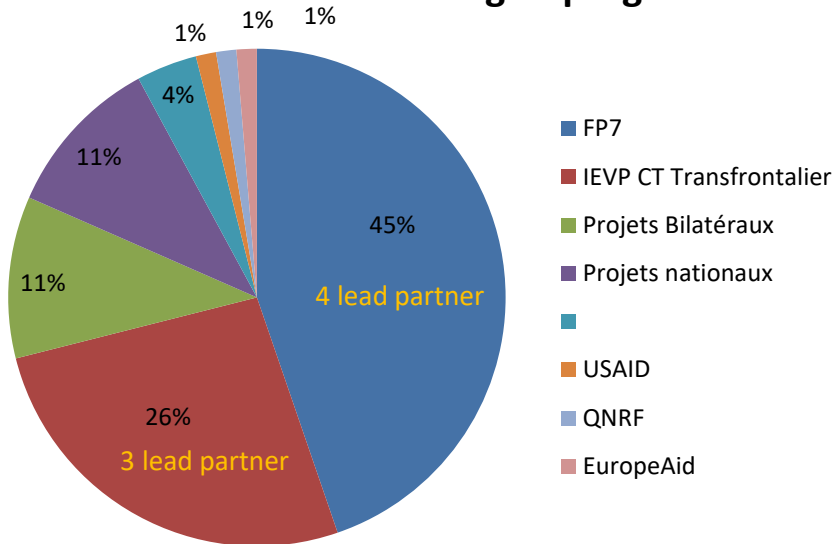
Establishing a National Transfer Technology Office NTTO



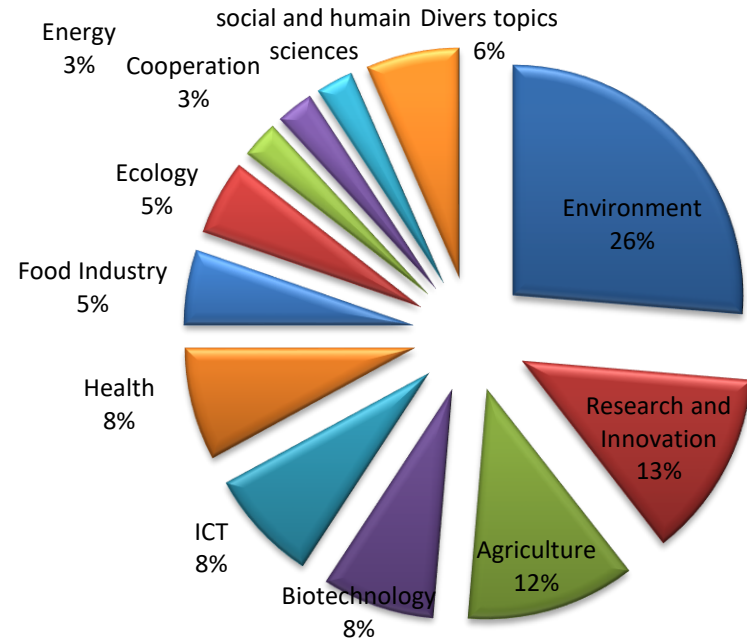
PROJECTS FINANCIAL MANAGEMENT



Division according to programmes



Division according to topics



ANPR has a large experience in projects financial management for the benefit of research institutions, in accordance with the Tunisian and European legislations.

About 80 projects indifferent research programmes



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Partner
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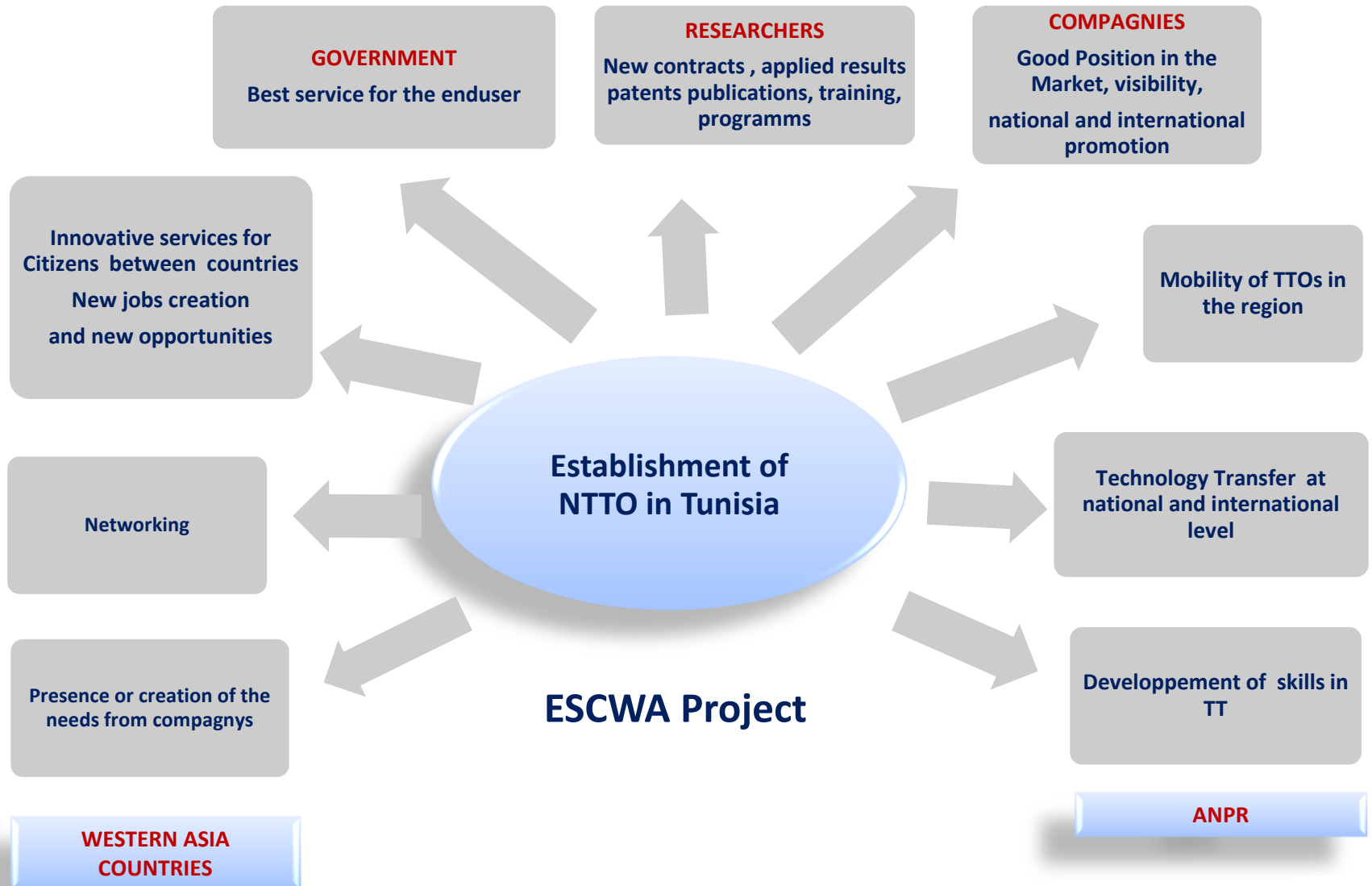
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Partner
(2017-2021)

Mobidoc



ADVANTAGES TO ESTABLISHMENT OF AN NTTO IN ANPR



HOW CAN WE MAKE (TT) A SUSTAINABLE SYSTEM FOR THE DEVELOPPEMENT OF THE SOCIETY THROUGH NTTO ?

All this point are noted by the national commission of valorization and internationalisation in the Ministry

- Developp a legal framwork for TTOs
- Professional Comittee for TT with Experts
- IP Policy and patenting process
- Define the environnement of TT: Technology needs, technology Markets
- Organisational and operationnal procedures for TT
- Incentives for reaserchers
- An accreditation for Laboratories
- Communication plan to promote all the Financial mechanisms
- Encourage practical reaserch wich solve problems in the society

MERCI!
THANK YOU!

