

#innovacion
#ayudascdti
#asesoramiento
#internacionalizacion



CDTI Technological Cooperation programs in India Opportunities for Spanish and Indian companies

Business Breakfast
Indo-Spanish Chamber of Commerce
29th September 2023

Patricia Sánchez Pacheco
CDTI Representative
SOST- India

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- 1. CDTI, the Spanish Innovation Agency**
- 2. Technological Cooperation in India**
- 3. Successful Stories of R&D&i collaboration**
- 4. CDTI's funding and services**
- 5. CDTI's Action Plan in India**

1 CDTI – The Spanish Innovation Agency



Enhance
Spanish companies'
competitiveness
through **INNOVATION**



➔ CDTI: Center for Technological Development and Innovation

- Public Entity - Ministry of Science and Innovation
- Created in 1977
- Agency provides funding for Spanish companies' R&D&i projects



1 CDTI – The Spanish Innovation Agency

➔ CDTI ACTIVITIES

FUNDING OF NATIONAL RTDI PROJECTS

- Spanish companies' Individual projects
- Cooperation of Spanish companies with R&D entities within Spain



INTERNATIONALIZATION OF RTDI PROJECTS

- International Technological Cooperation Programs
 - Multilateral programs: Eureka, Horizon Europe from the EU
 - Bilateral programs with other Gov agencies



CREATION & CONSOLIDATION OF DEEPTECH ENTERPRISES

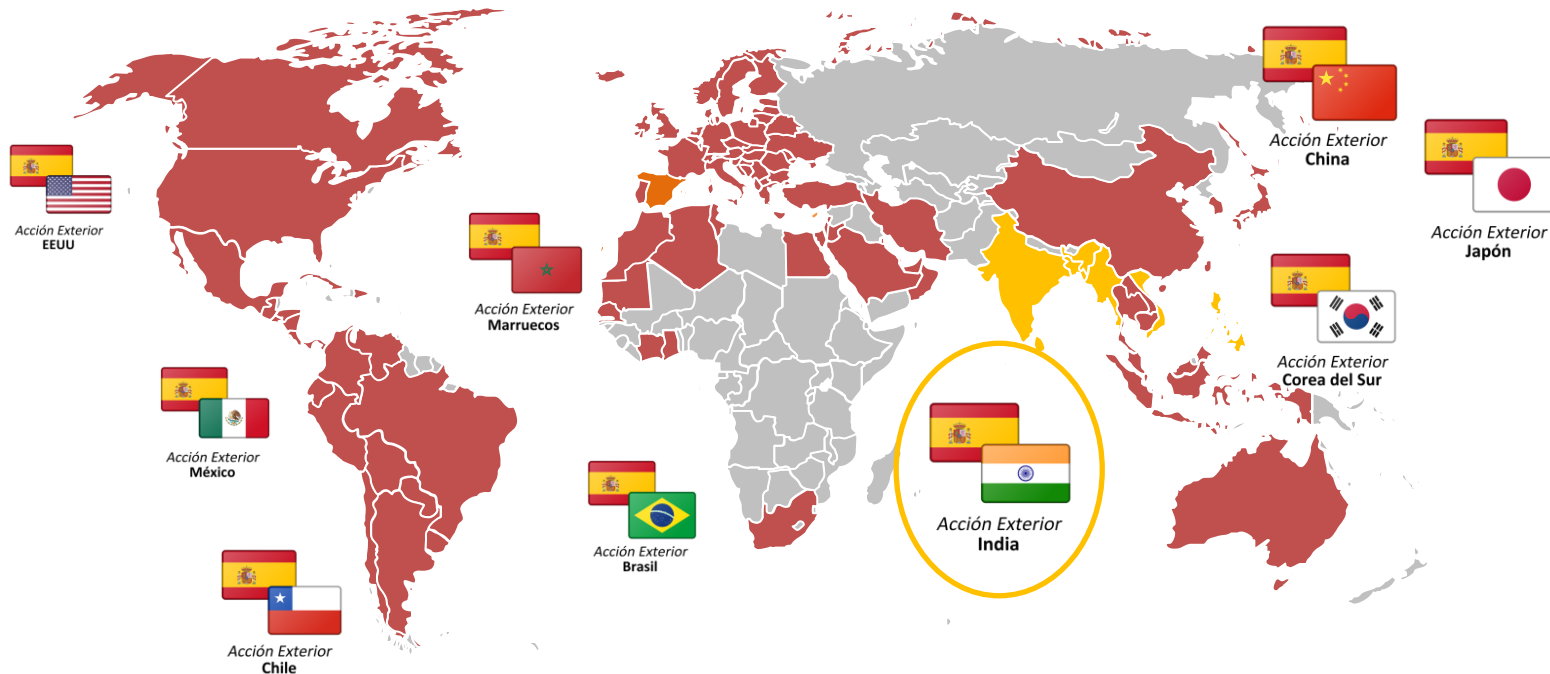
- Seed Capital - NEOTEC
- Venture capital - INNVIERTE



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CDTI – The Spanish Innovation Agency



1

CDTI – The Spanish Innovation Agency

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Brazil brasil@cdti.es

CDTI SOST BRUSSELS

Europe infodesk@sost.be

CDTI SOST CHILE

Chile, Argentina, Peru and Uruguay chile@cdti.es

CDTI SOST CHINA

China, Indonesia, Malaysia and Thailand china@cdti.es

CDTI SOST KOREA

South Korea, Taiwan and Singapore corea@cdti.es

CDTI SOST USA

USA and Canada eeuu@cdti.es

CDTI SOST INDIA

India, Bangladesh, Cambodia, Sri Lanka, Laos, Myanmar, Philippines, and Vietnam india@cdti.es

CDTI SOST JAPAN

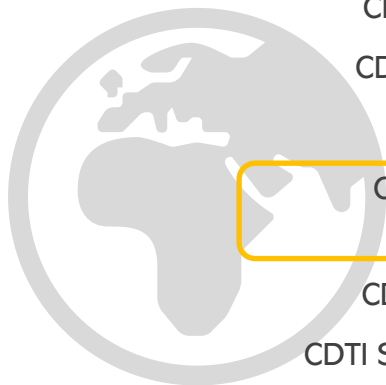
Japan and Australia japon@cdti.es

CDTI SOST MOROCCO

Morocco, Algeria, Tunisia, Egypt, Mauritania, Cape Verde, Senegal, Ivory Coast, Ghana, Lebanon, Jordan, Saudi Arabia, United Arab Emirates, Qatar, Kuwait, Oman and Iran marruecos@cdti.es

CDTI SOST MEXICO

Mexico, Colombia, Ecuador, Venezuela, Guatemala, Honduras, El Salvador, Nicaragua, Costa Rica, Panama, Cuba and the Dominican Republic mexico@cdti.es



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2

Technological Cooperation in India

1

Projects

2

Programs

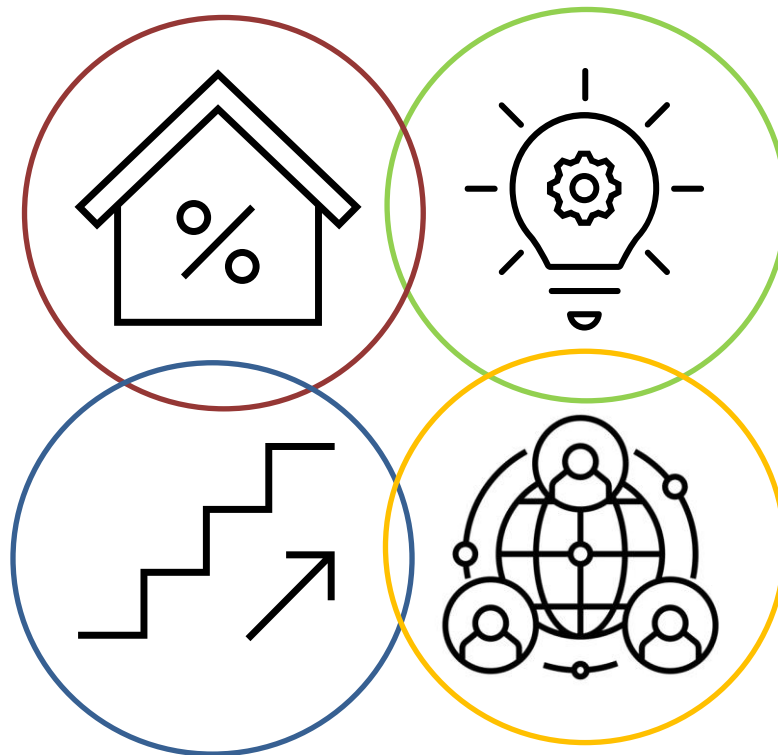
Projects

Market oriented

Innovative – create new
product, service or process

Bottom-up

International cooperation



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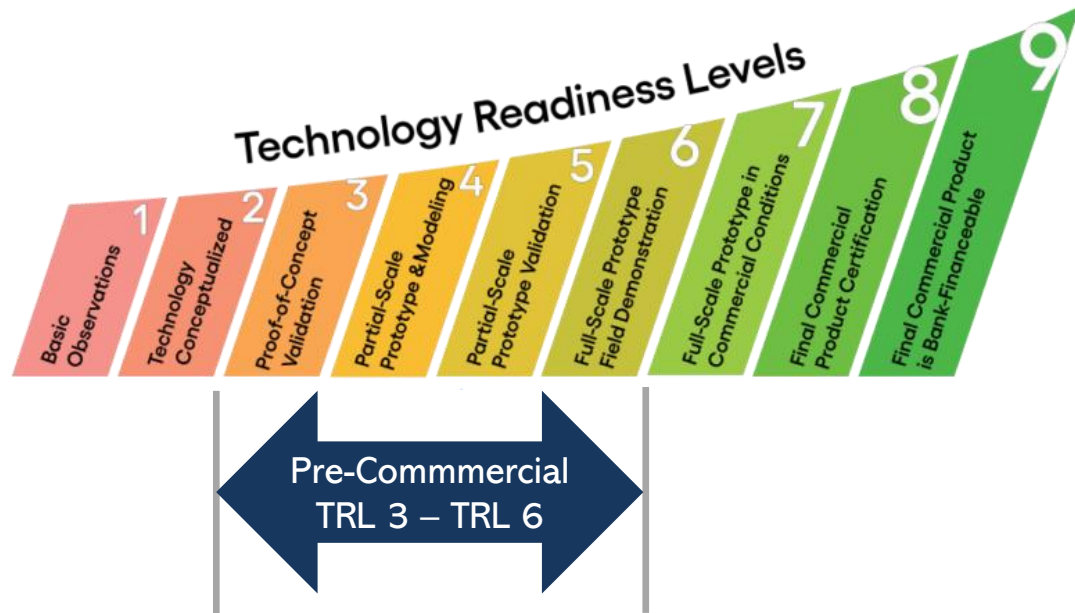
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2

Technological Cooperation in India

1

Projects

2

Programs

Bilateral

Unilateral



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Technological Cooperation in India

Bilateral

Thailand - Thai Center of Excellence for Life Sciences (TCELS)

Malaysia - Malaysian Industry-Government Group for High Technology (MIGHT)

India - Department of Science and Technology (DST), Department of Biotechnology (DBT) and Ministry of New and Renewable Energies (MNRE)

China – Ministry of Science and Technology

Korea – Korean Institute for Advancement of Technology (KIAT)

Japan – New Energy and Industrial Technology Development Organization (NEDO)

Taiwan – Department of Industrial Technology (DoIT)



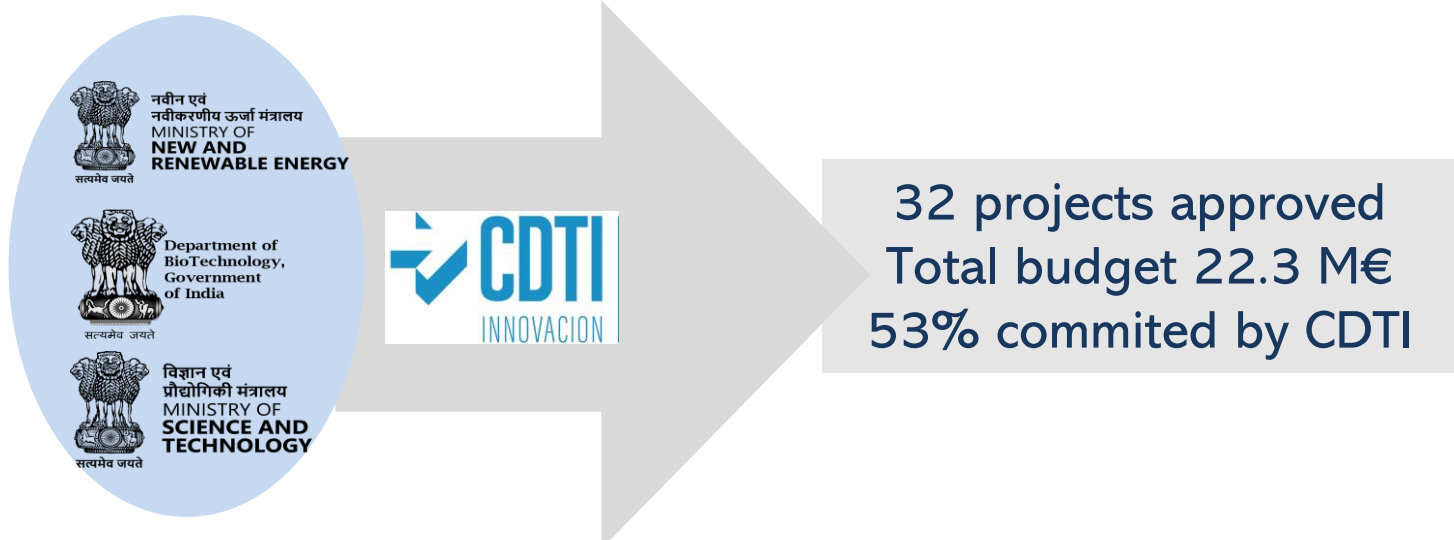
AGENCY PARTNERS



BILATERAL PROGRAMS INDIA

CDTI's **Institutional Bilateral Agreements** signed with India:

- DBT | Department of Biotechnology | **Biotech** | since 2011
- MNRE | Ministry of New and Renewable Energy | **Renewable Energies** | since 2011
- DST | Department of Science and Technology | **Multisector** | since 2013



2

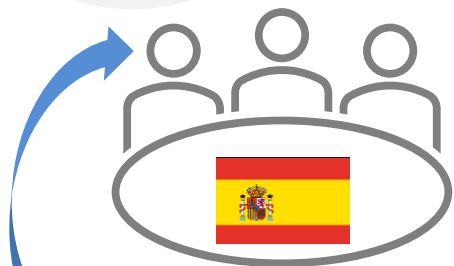
Technological Cooperation in India



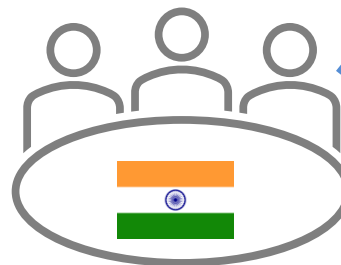
Bilateral

- CDTI has an agreement with a partner agency
- Both project participants receive funding
- Principle “No money crossing borders”
- Each agency funds their own participant according to their own conditions and rules

Calls
Restrictions
(topics
and partners)



RTDI Project



AGENCY PARTNER
Funding



CDTI
INNOVACION



नवीन एवं
नवीकरणीय ऊर्जा विभाग
MINISTRY OF
NEW AND
RENEWABLE ENERGY



Department of
BioTechnology,
Government
of India



विज्ञान एवं
प्रौद्योगिकी विभाग
MINISTRY OF
SCIENCE AND
TECHNOLOGY

BILATERAL PROGRAMS INDIA: Topics & Partners

Topics:

- DBT | Department of Biotechnology | [Biotechnology](#) |
- MNRE | Ministry of New and Renewable Energy | [Renewable Energies](#) |
- DST | Department of Science and Technology | [Multisector](#) |

Next calls DST | 25th September 2023 | [More info](#) |
 DBT | TBC (October 2023) |

CDTI - DST Joint Call 2023

Priority sectors:

- Clean technologies (renewables, water, environment)
- Internet of things (smart mobility, smart grids, smart cities, etc.)
- Digital health and medical devices
- Agro & food technologies
- Any other sector of mutual interest

CDTI - DBT Joint Call 2023

To be confirmed

Priority sectors:

- Health biotechnology
- Industrial biotechnology
- Biomedical engineering

BILATERAL PROGRAMS INDIA: Topics & Partners

Topics:

- DBT | Department of Biotechnology | **Biotechnology** |
- MNRE | Ministry of New and Renewable Energy | **Renewable Energies** |
- DST | Department of Science and Technology | **Multisector** |

Partners: (1+1) at least 1 partner from India and 1 partner from Spain

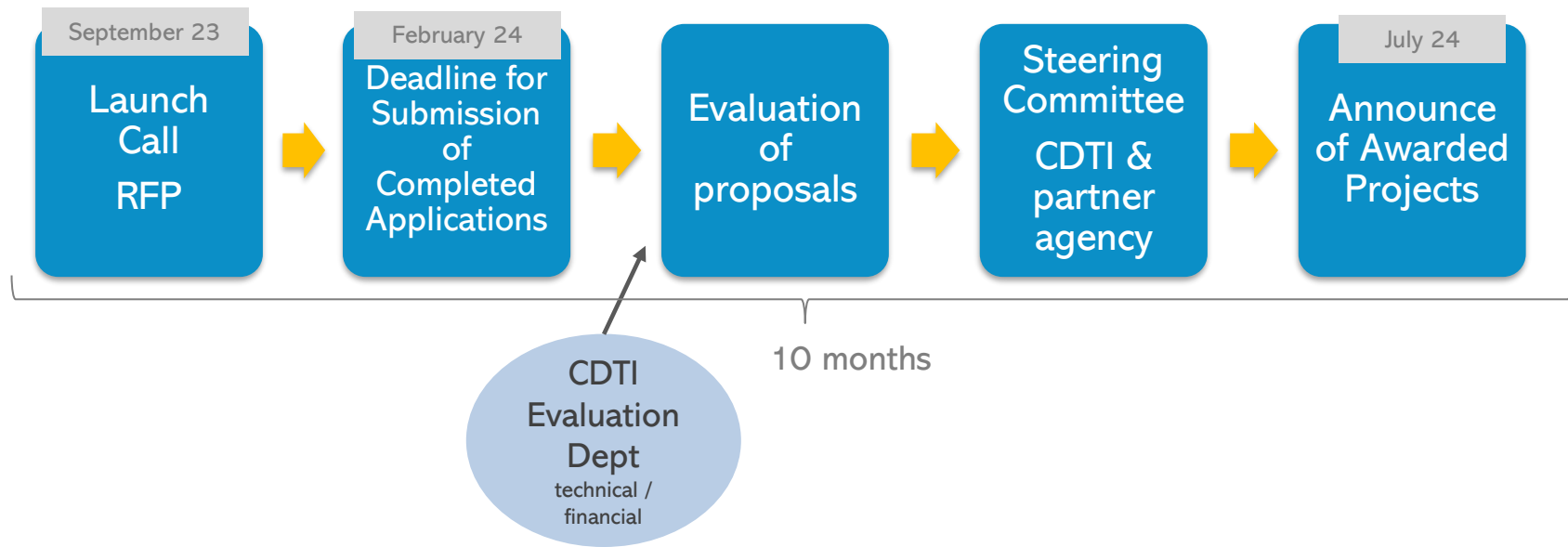
- ✓ Spanish side led by a **company** → Collaboration with other Spanish R&D entities (research institutes, universities, technology centres, hospitals, etc.) is permitted and it can be funded
- ✓ Indian side led by **R&D entity** headquartered in India. **Exception!** Bilateral program with DST → Indian side led by Indian **company**
- ✓ The Indian partner and the Spanish partner must be **independent** (no affiliated companies)

2

Technological Cooperation in India

BILATERAL PROGRAMS INDIA: Calls

Example: Bilateral Call CDTI- DST | 25th September 2023 |



2

Technological Cooperation in India

1

Projects

2

Programs

Bilateral

Unilateral



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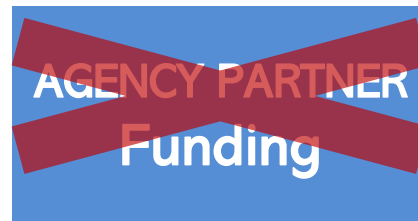
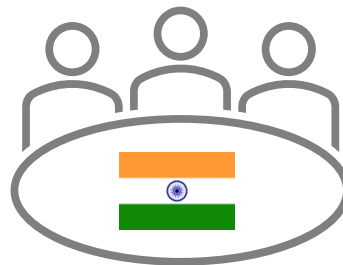
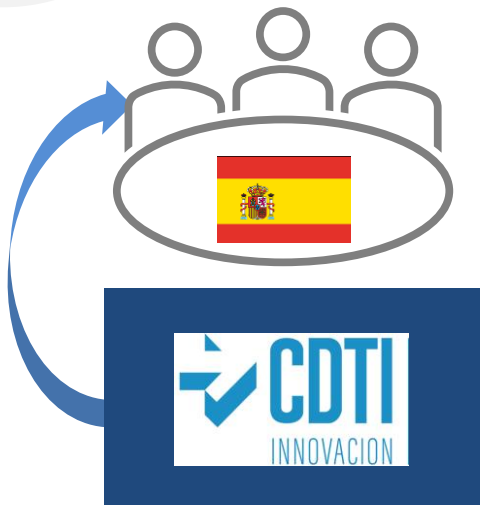
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Technological Cooperation in India

Unilateral

- Only the Spanish participant receive funding
- Indian participant needs to bring their own funding

Open all year
All Topics
All Entities



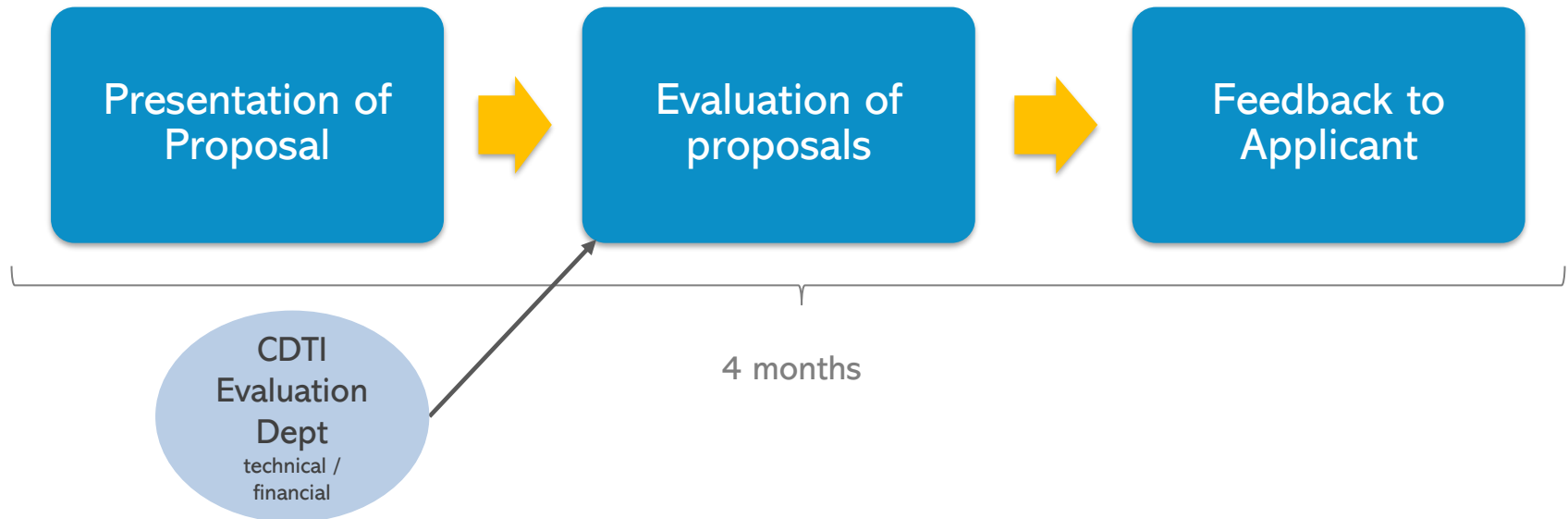
UNILATERAL PROGRAMS: Topics & Partners

- Project certification and funding is **only provided by CDTI** → No public agency will fund the Indian participant
- Special considerations
 - No restrictions in terms of **Indian partners** → any R&D Indian entity , including companies → India partner must self-fund their participation
 - No restrictions in **topics or sectors** → submit project proposal for any sector
 - **No calls** → submit your proposal anytime to CDTI
 - The Indian partner and the Spanish partner must be **independent** (no affiliated companies)

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Technological Cooperation in India

UNILATERAL PROGRAMS INDIA: No Calls



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3

Successful stories of R&D&i collaboration

Title: APTAFOOD

Objective: Aptamer-based biosensor to detect toxins in foods

Partners: Laboratorios CIFGA (Spain) | Central Food Technology Research Institute (India)



Title: ANAGRANINF

Objective: A new class of antibiotics against gram-negative bacterial infections

Partners: ABAC Therapeutics (Spain) | Peptris Technologies & The Foundation for Neglected Diseases Research (India)



Title: WIND POWER FORECAST

Objective: Tool to forecast wind and energy production in wind farms in Tamil Nadu

Partners: Vortex Factoría de Calculus (Spain) | National Institute of Wind Energy, NIWE (India)



Successful stories of R&D&i collaboration



Title: PREMIUM

Objective: Premium canned asparagus in plastic packaging

Partners: Industrias Alimentarias de Navarra (Spain) | Cofco Dabao Can Maker Industrial Co. Ltd. (China)

Title: CAFRISOL

Objective: Energy efficient integrated heating and air conditioning solution for residential buildings with solar thermal energy contribution

Partners: Solintel and Symelec (Spain) | Yangzhou Sunleada Solar Co. Ltd. (China)

- 30% reduction of the space required for its implementation
- 20% reduction in energy costs compared to existing solutions in the market
- 25% increase in the contribution of renewable energy sources in the total consumption of the building

Title: TEA BAGS

Objective: Heat-sealable paper for teabags

Partners: MB Papeles Especiales (Spain) | Sui Chang Xing Chang Paper Industry Co. Ltd. (China)

- MB > know-how for the development of new paper blends: different and better quality fibers than the competition
- Sui Chang Xing Chang > know-how in the production and handling of heat-sealable papers



Advantages

- ✓ Project financing
- ✓ Tax incentives
- ✓ Increase prestige to stand out from the competition
- ✓ Better positioning in the country
- ✓ Overcome local content requirements
- ✓ Recognition of two Government Agencies
- ✓ Acknowledgement of your technological level
- ✓ International visibility of the project



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FUNDING PROVIDED BY CDTI

Soft loan + grant

CDTI
Evaluation
Dept

R&D Project

Creation or significant improvement of a product or service or production process

Innovation
Project

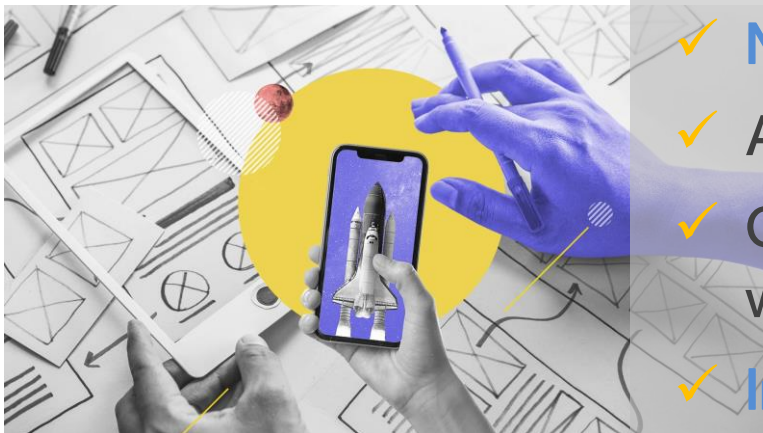
- Close to market commercialization
- Medium/low technological risk
- Short payback periods

FUNDING PROVIDED BY CDTI

| | R&D Projects | Innovation Projects |
|---------------------|--|---|
| Grant | Up to 33% | Up to 2-3% |
| Repayment period | 10-15 years | 3-5 years |
| Grace period | 1-3 years | 1 year |
| Fixed interest rate | 12 month EURIBOR rate | 12 month EURIBOR rate + 0,2% (if repayment in 3 years) + 1,2% (if repayment in 5 years) |
| Minimum budget | €175,000 | |
| Maximum credit | Up to 85% of the budget; 15% from other sources | |
| Financial advance | <ul style="list-style-type: none"> • up to 35% of the credit (limit €250,000) without bank guarantees • up to 50-75% if bank guarantees are provided | |

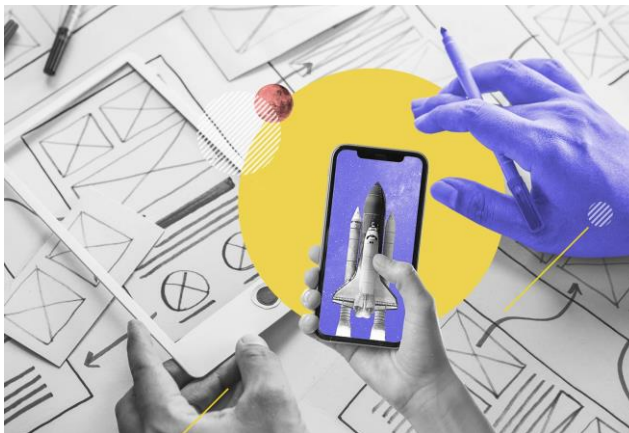
Innovation Projects are subjected to the EU De minimis rule - refers to small amounts of State aid companies that do not have to be notified to the European Commission by the EU Member States. The maximum amount is € 200,000 for each undertaking over a 3-year period.

WHICH COSTS ARE COVERED?



- ✓ **Technical staff** involved in the project
- ✓ **Materials** directly used in the project
- ✓ Amortisation of **assets**
- ✓ Outsourcing of **technical collaborations** with other R&D entities from Spain
- ✓ **Indirect costs:** legal advice for patents protection or IPR, consultancy services, etc.

WHICH SERVICES ARE PROVIDED?



- ✓ Identification of **technological partners**
- ✓ Information on the particularities of each international **program** in each country
- ✓ Assessment of the **suitability** of projects
- ✓ Advice for the preparation of **proposals**
- ✓ **Monitoring** of projects
- ✓ **Visibility** of the projects

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Promoting and funding R&D Collaborations between Spain & India

- ✓ 10th Call for R&D MULTISECTOR Projects under CDTI – DST Program

New Call 25th September

- ✓ 7th Call for R&D Projects in BIOTECHNOLOGY under CDTI – DBT Program

Next call TBC - October

Unilateral Program

Open all year, no calls

Networking and outreach activities

S&T inbound/outbound delegations and coordination of workshops

On-the-ground consulting and cooperation project assessment



More information about our programs and
services @cdti_innovacion



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