

EUCLID

Strengthening EU-India collaboration in networked monitoring and control systems technologies

EUCLID will stimulate R&D cooperation in the networked monitoring and control system technologies between Europe and India. It aims to strengthen European and Indian competitiveness and to increase skills of R&D specialists.

KEYWORDS: monitoring, control, complex systems engineering, R&D cooperation, India, transportation, energy management, industrial automation, clean water

Main Objectives

At A Glance: EUCLID

Engineering of Networked Monitoring and Control Systems

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Partners:

Inno-TSD (France),

EECI – European Embedded Control Institute (France),

IISC – Indian Institute of Science, Bangalore (India),

HTSL – Honeywell Technology Solutions Lab(India)

Duration: 24 months

Start: 2010.06.01

Total Cost: € 487,577

EC Contribution: € 400,000

Contract Number: 257093

India and the European Union face common timely challenges in the very important and potential field of networked monitoring and control system technologies, which create a favorable environment for strategic collaboration. In addition, India represents a huge economic opportunity for the European Union, and has a proud heritage in complex systems engineering and monitoring and control technologies.

EUCLID aims at stimulating EU-India cooperation in the field of networked monitoring and control system technologies. The project will particularly focus on 4 application domains: transportation, energy management, industrial automation, clean water. These areas entail many aspects of complex systems engineering.

EUCLID will support and promote EU-India cooperation in civil scientific research and technological development (RTD) on the basis of mutual benefit.

EUCLID's mission is threefold:

- i. Map Indian organisations involved in monitoring and control methods and tools research, assess the EU-India collaboration potential and propose recommendations with a roadmap and an action plan.
- ii. Organize awareness-raising, networking & brokerage and training events in India and in Europe and a delegation tour of European specialists to Indian organisations.
- iii. Provide 'hands-on' support to strengthen Indian participation in the European research and training, and to reinforce the cooperation

Technical Approach

The project work is divided into several groups of activities.

The **mapping of Indian organisations and existing EU-Indian collaboration activities** is driven by IISC and sets up a preliminary step for future project activities. It includes analysis of industrial needs in 4 application domains – transportation, energy management, industrial automation and water supply/treatment. Data about Indian monitoring and control organisations will be collected and assessed, and a catalogue of Indian monitoring and control organisations and research will be prepared and published on-line. Analysis of the Indian and European R&D priorities and the previous EU- Indian collaboration in the field will be provided.

As a next step, the **recommendations on EU-Indian collaboration** (with a roadmap and an action plan) will be developed, led by EECl. A round table in India on EU-Indian collaboration priorities will be organised.

Increasing awareness about EU-Indian collaboration opportunities is the project's main concern. **Networking, brokerage, dissemination and awareness raising activities**, led by inno-TSD and by HTSL, will be carried out both in Europe and in India for monitoring and control specialists. This includes two networking and brokerage workshops, one delegation tour to selected Indian universities, institutes and companies for the representatives of European academic and industrial organisations, FP7 training days in India, publication of newsletters, etc.

The project team will also provide **hands-on support** to promote Indian participation in European monitoring and control research and training.

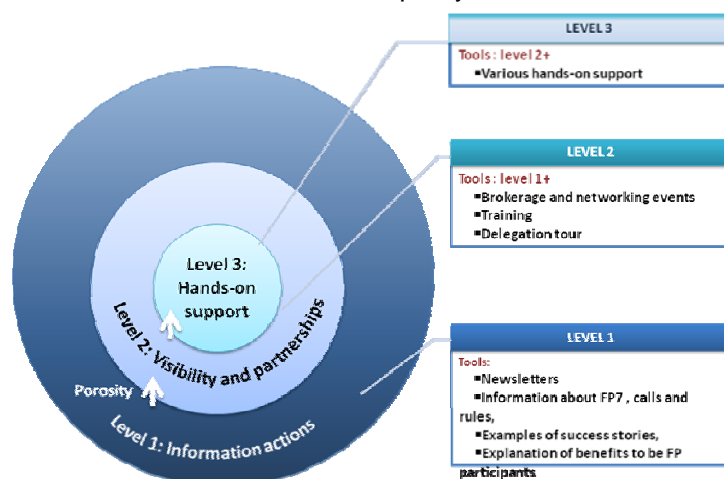
The International Expert Group – top level highly motivated monitoring and control specialists – will provide their expertise to project implementation and assistance to the development of long term monitoring and control collaborations between Europe and India.

Key Issues

The strong links shall be insured throughout the project between the industrial needs in the selected application domains and the project activities. Indeed, R&D makes only sense with the final focus on strengthen the European and Indian monitoring and control industry in a win-win situation. Thus, the dialogue on industrial needs with researchers will help a lot in strengthening EU-Indian R&D collaboration and orienting it in the right directions.

EUCLID will engage and/or target the European and Indian R&D public and private organisations working in monitoring and control, including R&D companies, universities, institutes, public R&D centers, companies), European and Indian Multipliers (NCPs, ETP/JTI, Networks of Excellence...), European and Indian key decision, policy makers and facilitators. They will benefit

from information actions, visibility and partnerships actions and hands-on support.



Main Results

A catalogue of Indian monitoring and control organisations will be available on the project's website. A report on EU-Indian monitoring and

control cooperation will be prepared and will include proposals for future cooperation.

Two networking and brokerage events, three workshops/round tables, one delegation tour to India for European industrial and academic specialists and training session will be organised.

Expected Impact

The strategic impact of the EUCLID project stems from its main aim to reinforce international cooperation in monitoring and control research between Europe and India.

The ambition of EUCLID is set up a framework to strengthen industrial competitiveness in both India and the EU, and to increase skills of R&D specialists. The mutual actions between EU and India will contribute to the inter-disciplinary excellence in monitoring and control systems technologies.