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CSIRO and India – our collaboration strategy

August 2009



Presentation Outline

- 1. CSIRO Overview**
- 2. CSIRO's International Strategy**
- 3. Current links with India**
- 4. Future collaboration areas and mechanisms**

CSIRO snapshot

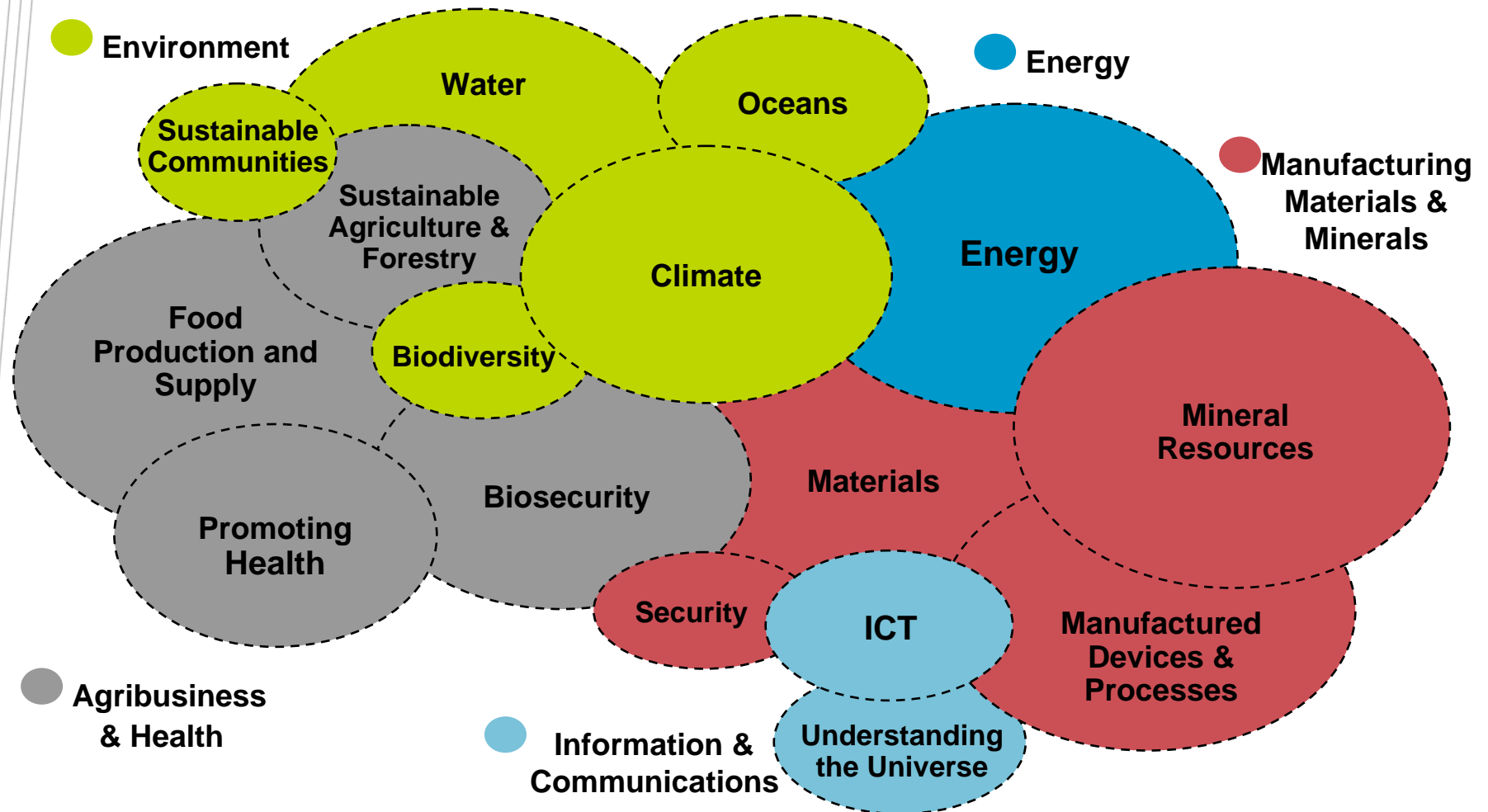
Australia's national science agency

One of the largest & most diverse science agencies in the world

6,500 staff in >50 locations across Australia

Budget: A\$1.1 billion (68% Government funds, 32% external funding)

CSIRO delivers its science through five overarching Groups



National Research Flagships



- Climate Adaptation

- Energy Transformed

- Food Futures

- Future Manufacturing

- Light Metals

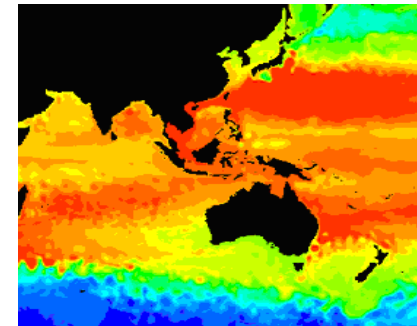
- Minerals Down Under

- Preventative Health

- Sustainable Agriculture

- Water for a Healthy Country

- Wealth from Oceans

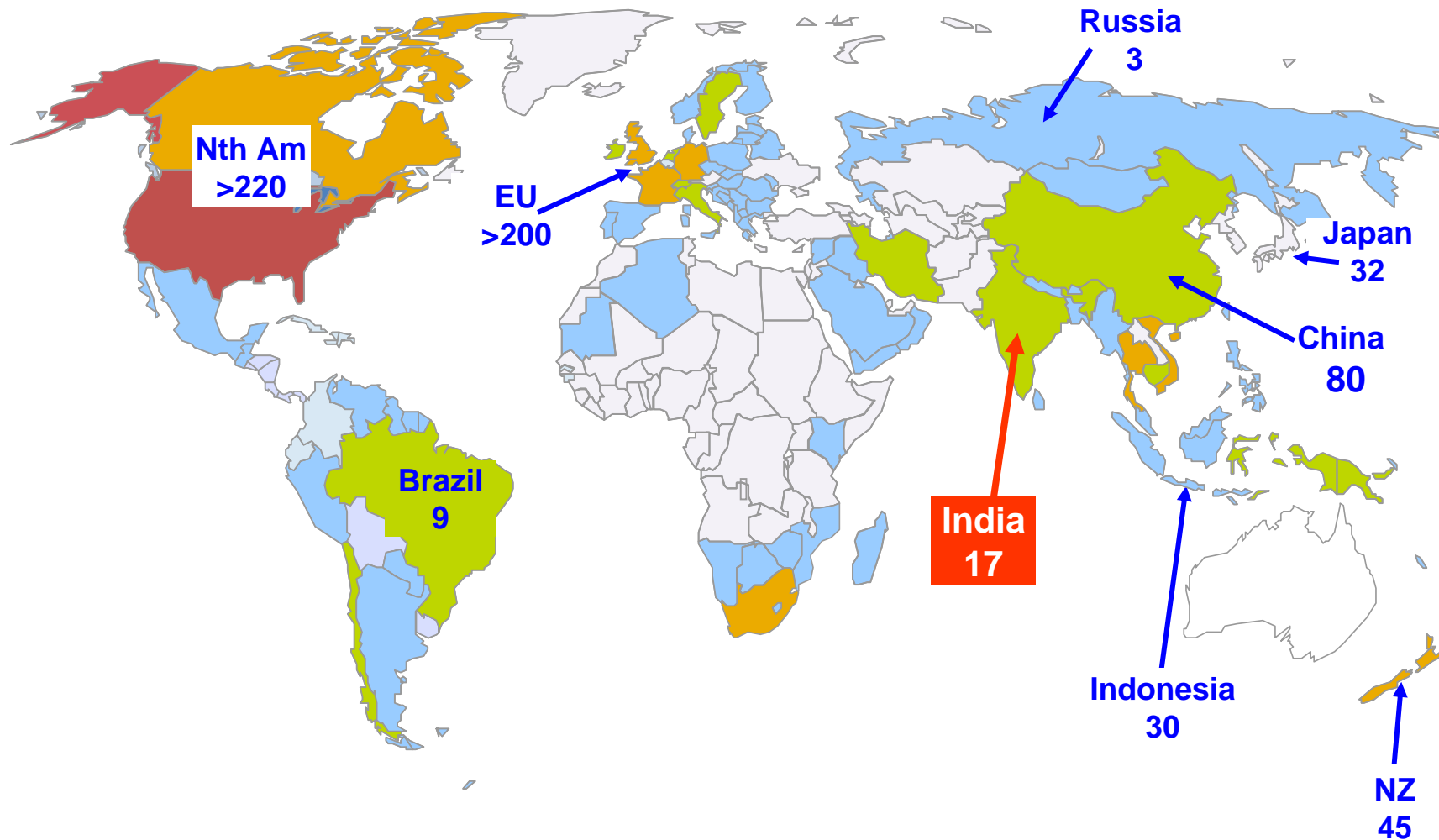


CSIRO is a Research Organisation with Global Reach

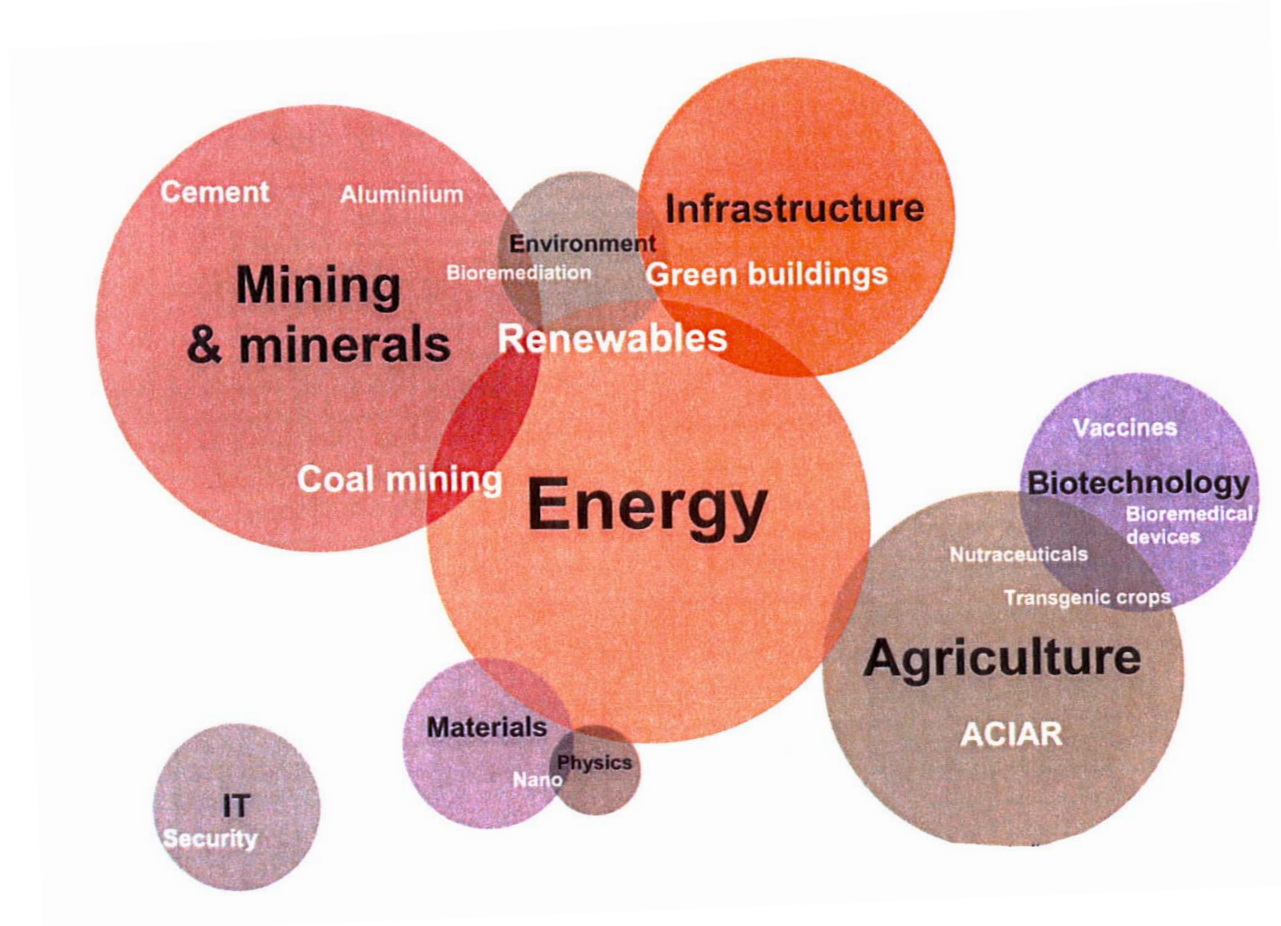
- **Global opportunities & Challenges**
- **R&D becoming increasingly global**
- **Australia's small size**
- **Access to global research networks**



CSIRO International Projects in 2007-08

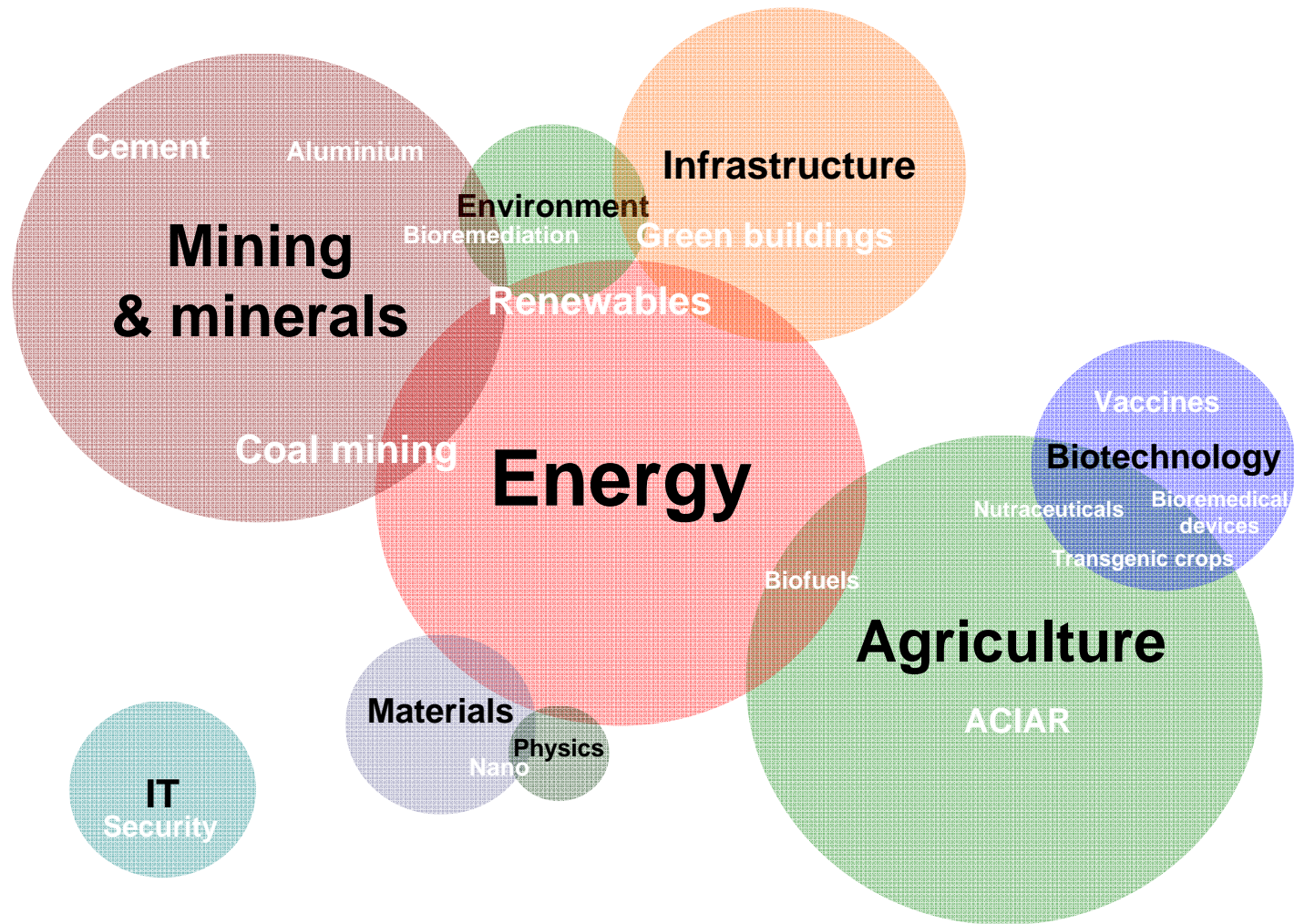


Breakdown of Australia–India Collaborative Research*



* DIISR figures

Australian Govt Funding for Collaborative Research with India 2009*



Scale

\$2.3m

* DIISR figures

Current CSIRO collaboration with India includes

- **CSIRO – CSIR collaboration**
- **Projects on energy (APP)**
- **Part of IITB-Monash Research Academy**
- **Environmental projects**
- **Joint workshops on S&T issues**

India and Australia: Common challenges

- **Access to water**
- **Demanding future energy requirements**
- **Need to deliver this energy across large distances**
- **Increasing urbanisation**
- **Food production from dryland agriculture**
- **Environment pressures (esp. urban and marine systems)**
- **Climate variability /change**

CSIRO aims to

- **Develop research partnerships with Indian organisations in areas of mutual benefit**
- **Provide researcher and student exchanges between CSIRO and Indian partners**
- **Provide CSIRO staff with the opportunity to work with Indian research organisations and industry and visa versa**

Possible Areas of Engagement

AGRIBUSINESS

- **Agricultural Sustainability**
- **Human Health / Nutraceuticals**
- **Biosecurity**

ENERGY

- **Clean Coal Technologies**
- **Renewable Energy Technologies**

MANUFACTURING, MATERIALS & MINERALS

- **Mineral Resources**
- **Nanotechnology**
- **Effluent treatment of textile wastes, biodegradable chemicals**

Possible Areas of Engagement

ENVIRONMENT

- **Climate Risk & monitoring**
- **Water availability**
- **Marine research**

INFORMATION & COMMUNICATIONS TECHNOLOGIES

- **Radio-Astronomy**
- **Information Technologies**
- **Earth Observation Technologies**
- **Remote Sensing**
 - **Oceans, Land mapping, carbon accounting**

Possible Mechanisms of Engagement

- **MOUs with Indian research organisations to work towards common goals (e.g. Dept. of Biotechnology)**
- **Strategic Research Alliances with Indian research organisations (e.g. CSIR)**
- **Individual Projects**
- **Technology Transfer/Exchange**
- **Senior Researcher and Student exchanges**

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Thank you

Contact Us

Phone: +61 2 6276 6635

Email: john.cullen@csiro.au

Web: www.csiro.au

