



**FEAST Conference 2006**

*Research without borders*

Session 6

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**Publicly Funded Research Institutions:  
the Challenge of Internationalisation**

this session is sponsored by Solvay Pharmaceuticals

# PUBLICLY FUNDED RESEARCH INSTITUTIONS: THE CHALLENGE OF INTERNATIONALISATION

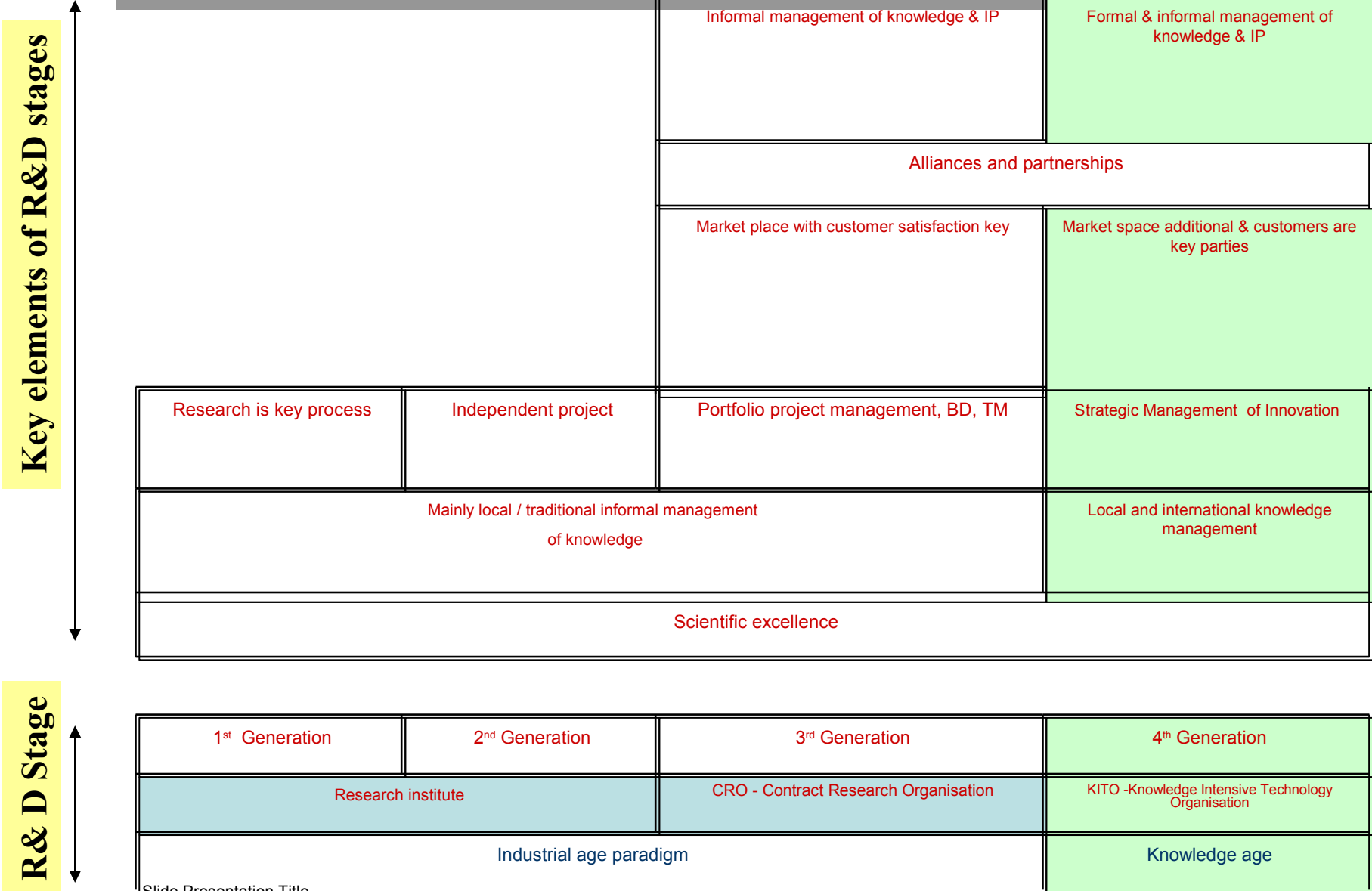


Dr Anthos Yannakou, November 2006

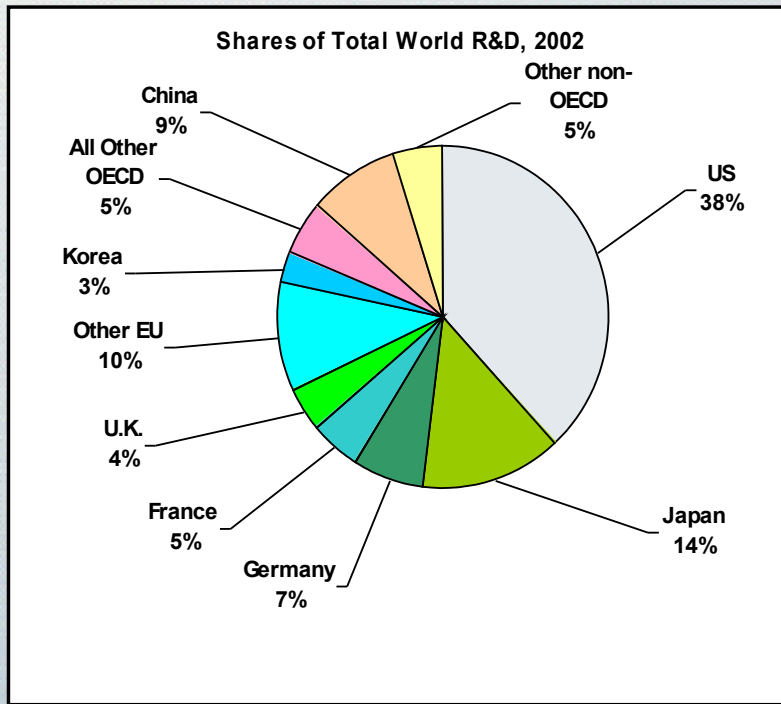
- **Evolution of publicly- funded research organisations**
- **International context**
- **CSIRO's response**
- **Conclusions**

# The evolution of R&D

CSIRO

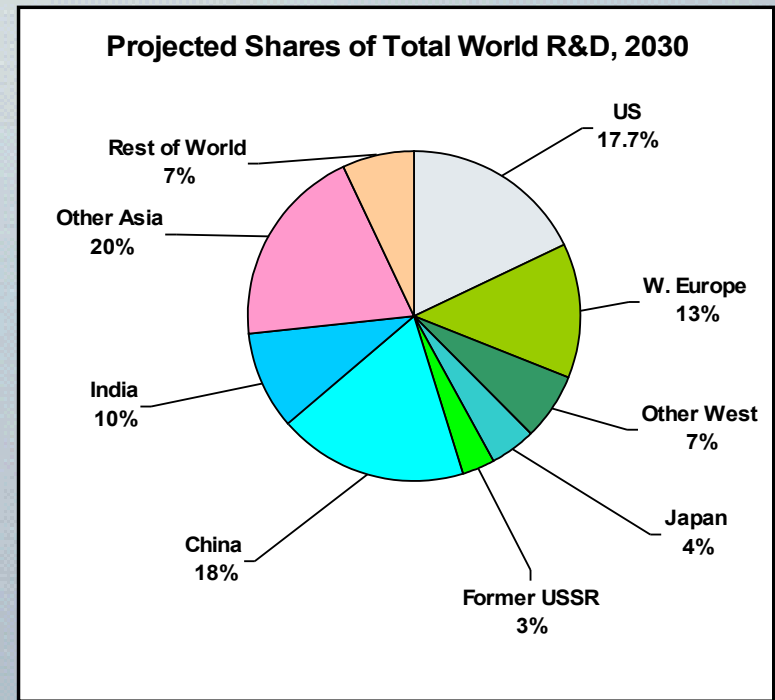


# Shares of Total World R&D, 2002 and 2030\*



Total 2002 World R&D – US \$760 Billion

(Source: AAAS, 2004)



Projected 2030 World R&D – US \$2685 Billion

(Assuming 3% R&D/GDP ratio for all countries)

\* 1990 PPP US\$, GDP forecast by Maddison, 2004

BUSINESS SENSITIVE

- **Rise of China, India**
- **Asia Pacific is a government priority:  
White Paper**
- **Australia declining from 2% to 1% of  
global knowledge production**

## OBJECTIVE

- **Increase partnership development**
- **Participation in global forums of importance**
- **Researcher contacts, people development**
- **Increasing impact in Australia**

- **Leveraged, enhanced evolutionary**
- **Strategic, focused**
- **Managing risk, learning**
- **Working in partnership**
- **Business development mainly contract research/ consulting, but co- investment where appropriate**

- **Strengthen participation in EU FP projects: CSIRO involved in 5 projects**
- **Work with GRA partners and others in joint R&D projects**
- **Improve bilateral and multinational links such as the FAST program**
- **Joint publications**

CSIRO PUBLICATIONS – WITH EUROPEAN CO-AUTHORS		
COUNTRY	TOTAL 2003 TILL JUNE 2006	RANK
UK	421	2
GERMANY	232	3
FRANCE	205	4
NETHERLANDS	102	9
ITALY	92	10
SWITZERLAND	65	12
BELGIUM	52	14
SPAIN	51	15
DENMARK	46	16

**CSIRO, “a research enterprise with global reach”, will be defined as an organisation with national impact, international leadership in niche areas, and extensive global connections**

## **Publicly funded research organisations need to:**

- **Adapt to 21<sup>st</sup> century globalising knowledge economy**
- **Develop a strategic and focused approach**
- **Impact and provide returns to Australia**
- **Support and align with government initiatives and priorities**