



# Beijing High-level Conference on Climate Change: Technology Development and Technology Transfer

## Innovative Ideas on IP Rights The Cooperation Perspective

Carlo Pandolfi

EU - China IPR2 Project  
European patent office

Beijing, 8 November 2008



# Innovative ideas on IP rights

European patent office - A technical body

Quality patents

Access to patent information

International technical cooperation

EPO at the forefront of discussion

Is the current IP rights system fit to help address the challenge threats posed by climate change

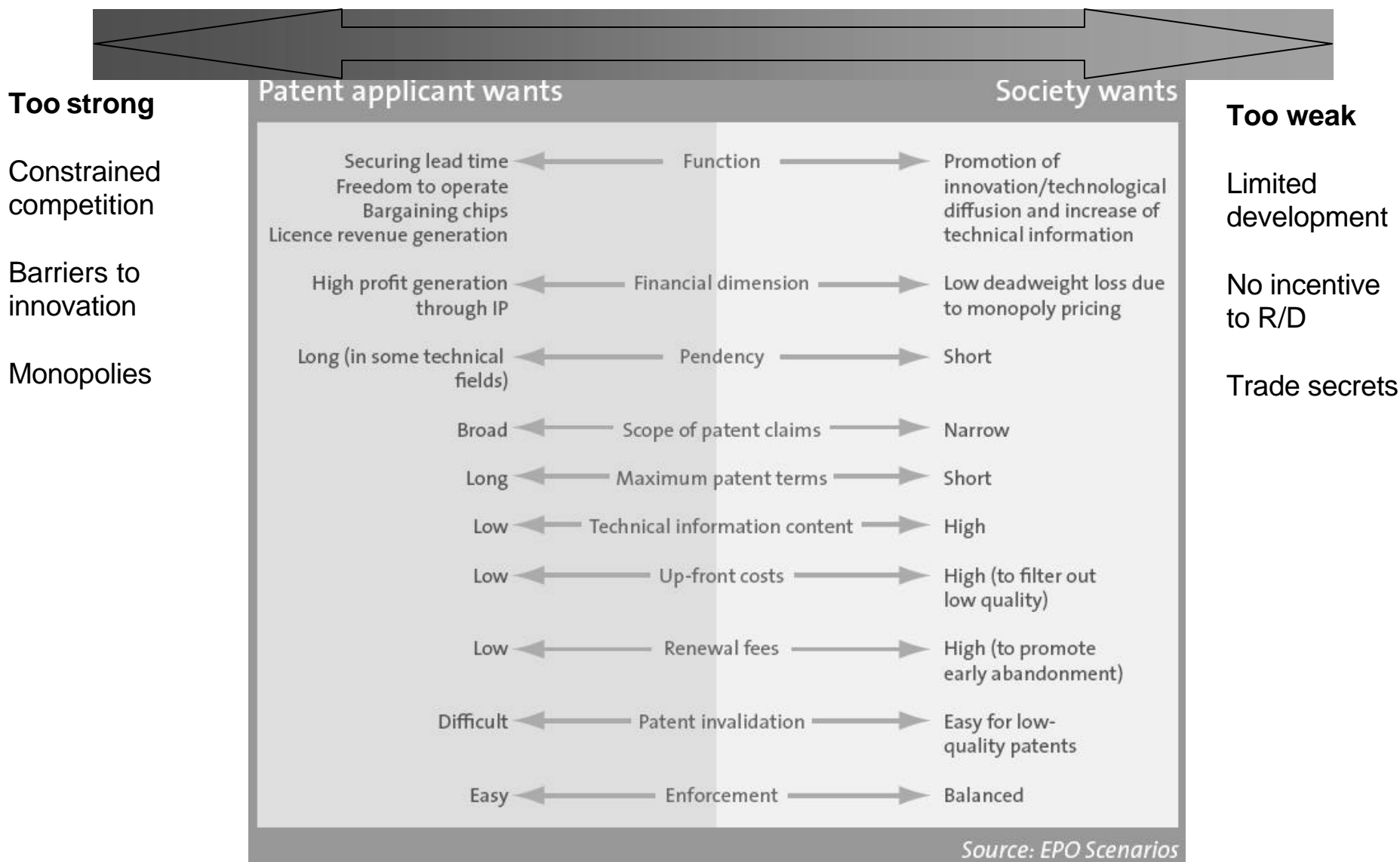
Scenarios for the future

Technology Transfer Initiatives

Project with the International Centre for Trade and Sustainable Development (ICTSD)

*The greenhouse effect was first identified in 1824 by physicist Joseph Fourier*

# The Balance in IPR Protection



Source: EPO Scenarios

# Scenarios for the future

## Comparing scenarios

- Government
- Business
- Climate and environment pressure
- Ethical issues
- Control systems
- Role of IP
- Role of experts

### Market Rules – Business as the dominant driver

The story of consolidation in the face of a system that has been so successful that it is collapsing under its own weight; Power and Global Jungle are the major driving forces.

### Trees of Knowledge – Society as the dominant driver

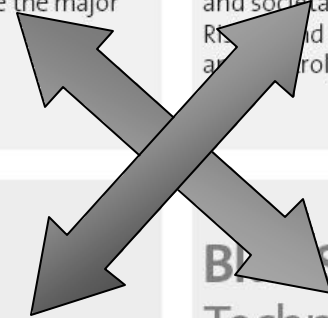
The story of erosion in the face of diminishing societal trust, where Power (from the bottom up) and societal fear of Pace of Change and Systemic Risks and Knowledge Paradox (in terms of access and control) – are the major driving forces.

### Whose Game? Geopolitics as dominant driver

It's the story of conflict in the face of changing geopolitical balances and competing ambitions, where Power and Global Jungle are the major driving forces, but in contrast to the business-led scenario, the states are the key players.

### Blue Skies – Technology as dominant driver

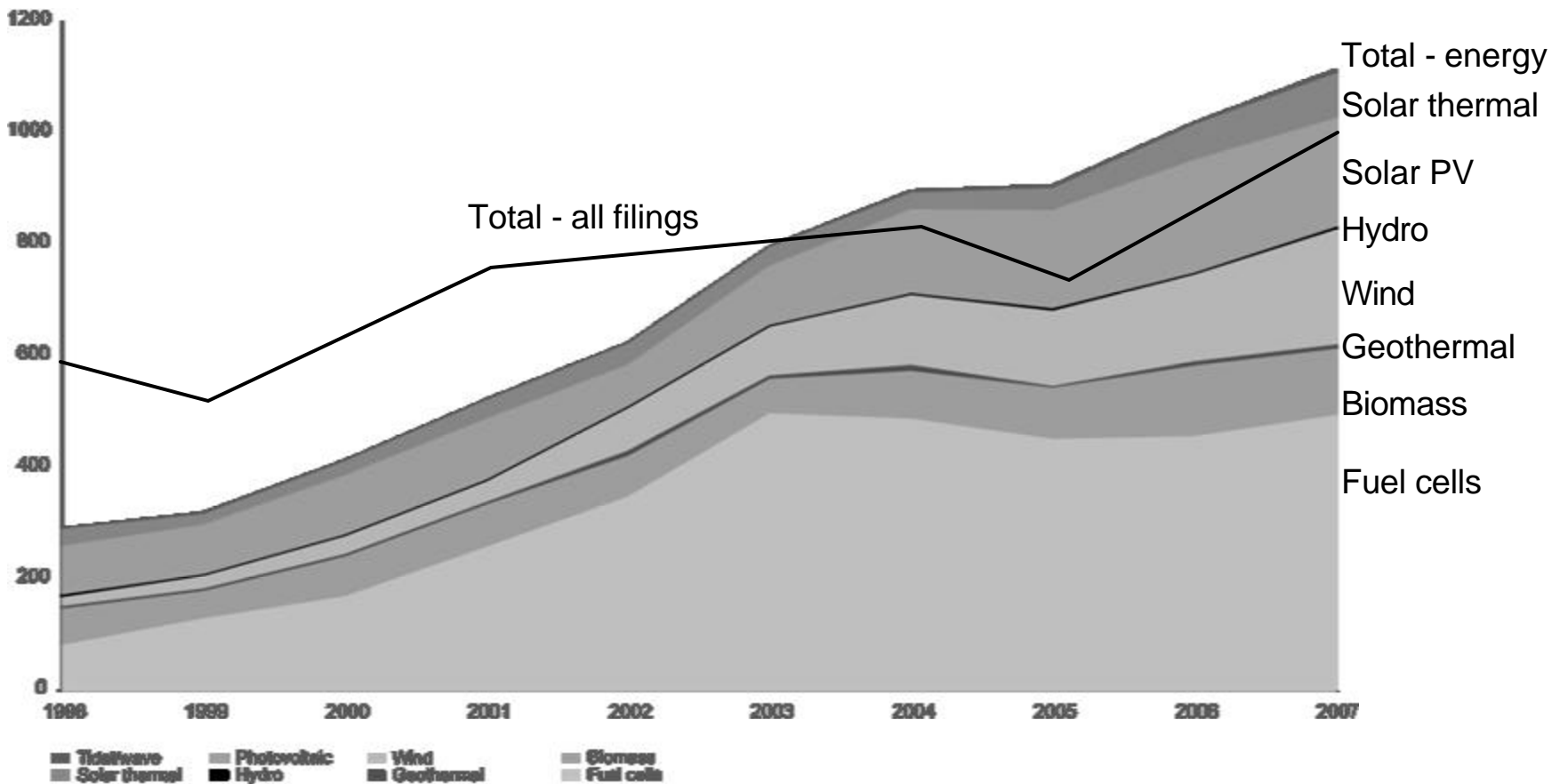
The story of differentiation in the face of global systemic crises, where Pace of Change, Systemic Risks and Knowledge Paradox (as the nature of knowledge changes) are the major driving forces.



<http://www.epo.org/topics/patent-system/scenarios-for-the-future.html>

# Energy related patent applications at the EPO

Growth in patent filings



# Climate friendly innovation

## Photovoltaic energy

About 89% of the worldwide photovoltaic capacity is installed in three countries Germany, Japan and California (USA)



## Building insulation

Old and licence-free technologies in insulation are broadly disregarded because of lack of incentives



*Governments taking seriously their role to protect the environment will need incentives for the use of technology*

# Does clean technology require new IPR?

- IPR - obstacle or incentive?
  - green technology is part of the solution
  - some environmental friendly technologies are well known for hundreds of years
  - patents can help identifying "a market" for sustainable technologies
  - IP plays very different role in renewable energy than in pharma (different scenario concerning competitiveness and access)
- Effective climate protection is a political aim of the EU
- Technology Transfer as foreseen in TRIPS, Kyoto  
EPO can assist, however it is not our core task

# Relevance of IPR on Technology Transfer

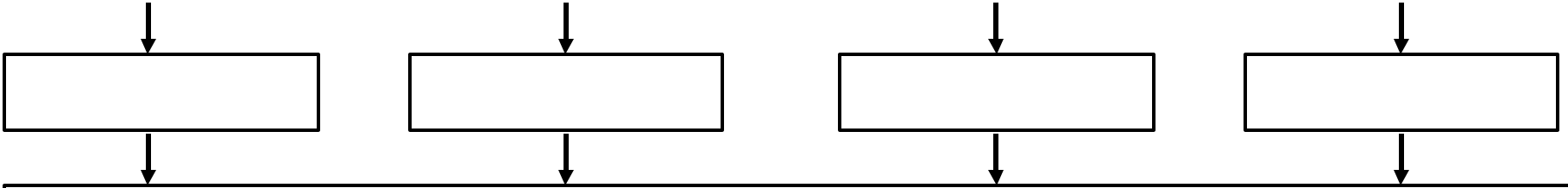
Initiative with International Centre for Trade and Sustainable Development (ICTSD)

Partner Institution/Expert	Role in Project
The Energy Research Centre of the Netherlands (ECN)	Preparation of sector mapping study on Energy Supply
The Energy and Resources Institute (ERI), India	Preparation of sector mapping study on Residential and Commercial Buildings
Energy Research Institute (ERI), China	Preparation of sector mapping study on Transport
United Nations Environment Programme – Division of Technology, Industry and Economics (UNEP-DTIE)	Review of sector mapping studies
Institute for Global Environmental Strategies (IGES), Japan	Review of sector mapping studies
World Resources Institute (WRI), Washington, D.C.	Review of sector mapping studies
European Patent office (EPO)	Contribution to patent landscaping and licensing analysis
Licensing Executives Society International (LESI)	Contribution to patent landscaping and licensing analysis



# Relevance of IPR on Technology Transfer

Technology mapping studies in 4 key mitigation sectors identified by the IPCC



Identification and specification of technologies for mitigation

Patent landscaping: What patent exist on these technologies?  
Who own them? Where?

Analysis of licensing costs: What is the cost of acquiring licenses?

Research and analytical insight into UNFCCC negotiations on transfer of technology and financing

**Thank you for your attention !**

**Carlo Pandolfi**

**Yong He Plaza ? ? ? ?  
No. 28, An Ding Men Dong Da Jie,  
Dong Cheng District, Beijing 100007**

**? ? ? ? ? ? ? ? ? ? ? ? ? ? 28?  
100007**

**[t] +86 10 8419 5708**

**cpandolfi@epo.org**