

# **Making Innovation More Inclusive**

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# Changing environment (1)

- **Legislative**

- Making research results more broadly and easily accessible
  - **Institutional: NIH Public Access Policy**
  - **National: National Strategy for Research Data in Canada**
- Legally engaging universities in open innovation
  - **Sweden's Higher Education Act**
- Increased autonomy (i.e. University by-laws) allows experimentation among institutions

- **Glasgow University's Easy Access Programme**
- **Penn State university**

# Changing environment (2)

- **Capacity building**

- New boundary spanning and bridging organisations
  - **Proof of concept centres, Innovation offices, Creation of limited liability companies, ICT-driven tools (e.g. University of British Columbia's Flintbox)**
- Financial/Equity Support
  - **Patent funds for SME and PROs (e.g. Korea and France), pension funds, crowd funding on campus**
- Rise of collaborative IP mechanisms and intermediaries
  - **Government backed patent pools (e.g. US DOEs Next Top Innovator), IP sharing**

# Changing environment (3)

- **Initiatives targeting researchers**
  - Incentives to disclose findings
    - **“insurance schemes” (e.g. Singapore’s Phoenix Awards)**
  - Rise in interdisciplinary research policies
    - **e.g. Academy of Finland**
    - **Tendency to create small interdisciplinary research teams**
  - Policy guidance to researchers on how to comply with rules on data access and sharing

# Workshop On Knowledge Transfer, Exploitation and Commercialisation (1)

- **Discussion on University-Industry Linkages**
  - More indirect and tacit channels
    - **HR / graduates are important channel, informal networks etc**
  - Spillovers from HEI/PROs often with long time delay, difficult to assign source and impact of spillovers
  - Consider differences between institutions and especially between science fields
    - **Social sciences differ from basic science etc.**
  - Policy measures and discussions often focus on TTOs
    - **But mostly cooperation are initiated by individuals, TTOs play neglect able role**
  - Interactions between science and industry intermediate on private basis
    - **Implies changing role and meaning of TTOs**

# Workshop On Knowledge Transfer, Exploitation and Commercialisation (2)

- **Key issues**

- Broadening the knowledge transfer concept
- Incentive schemes for knowledge transfer (institutional level, individual level)
  - **Integration of incentive structures in institution management ?**
- Switch from economic value to societal value?
- Open government?

# Global Forum on the Knowledge Economy (Sep. 2012)

- **Innovation for Better Lives - Focusing on People's Needs (e.g. health, aging, environment, development)**
  - Frugal innovation
    - **Flexible, lower cost, “appropriate” technologies**
  - Transformational innovation platforms
    - **Game changers (e.g. ICT, broadband)**
  - Impact investment
    - **Not only VCs, but also public, private, NGOs and foundations**
  - Challenge-driven innovation
    - **Silver economy**
    - **Innovation from “citizens sector”**
    - **Scaling-up of network backed by NGOs and foundations**
  - Innovation 2.0 (inclusive innovation) requiring



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