

## EU-Africa ST&I Cooperation Case of Food security

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CN+ Annual Meeting, AUC, Addis Ababa



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### Building Bi-regional Partnerships for Global Challenges



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# Food (and Nutrition) Security

- Individual, household, national, global
- In Africa – 200m people undernourished; PEM, stunting & micronutrient deficiencies; rising chronic diseases; food import bill (Euro \$33 billion)
- Multifaceted & multidisciplinary – political, social, environmental, scientific/technological
- Priorities for Africa & Europe – Ensure alignment with CAADP

# JAES Priorities

- Cooperate to maximize the benefit of S,T&I
- Keep sustainable agriculture high on the development agenda
  - AU 2014 year of agriculture & food security
  - conserve natural resource base
  - Aim for sustainable & inclusive growth, FNS, increased incomes & productivity
- Focus – CAADP, SPS issues, standards, quality and certification

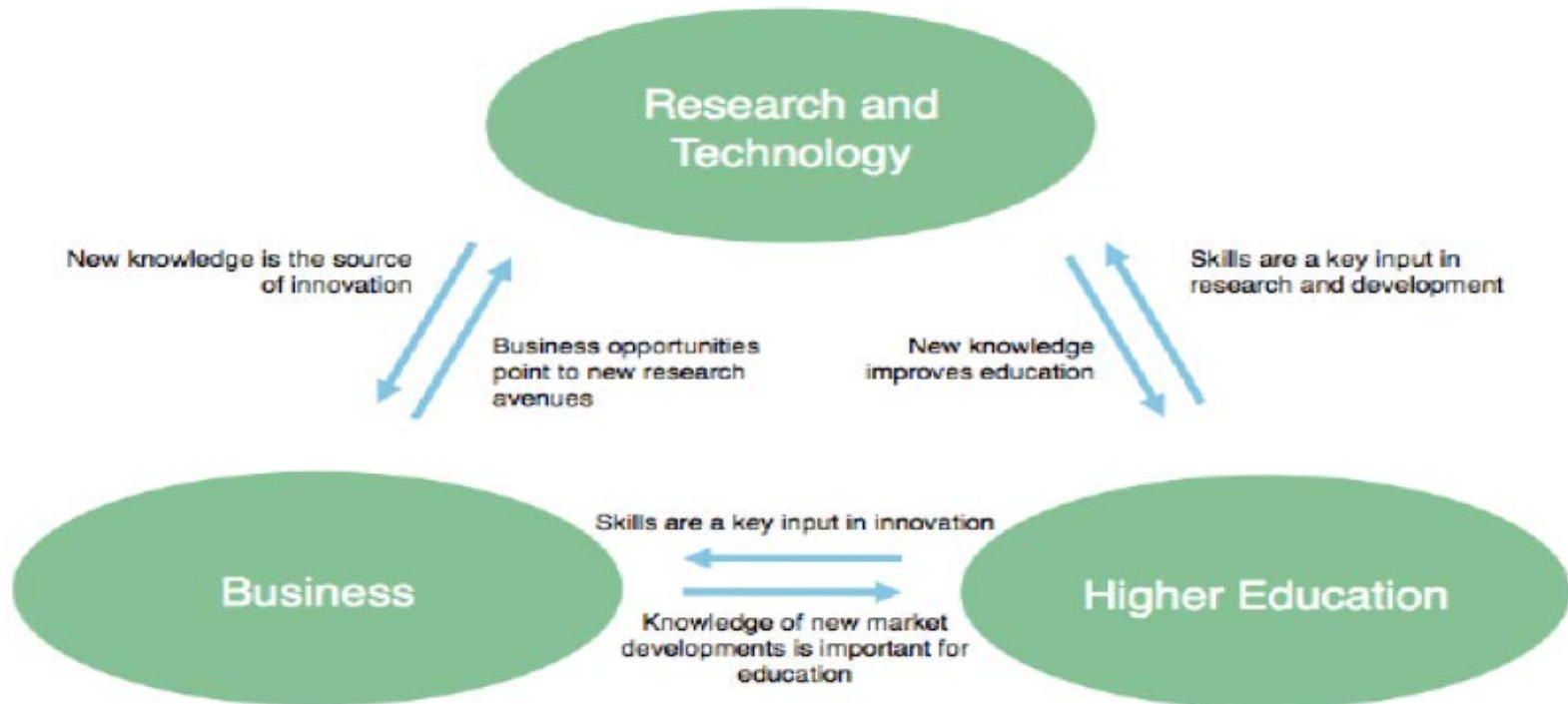
# ST&I in Africa

- Science – Low investments (<1% GDP); underperforming universities;
- Technology – Low tech production, processing & marketing systems, little value addition,
- Innovation – Little innovation in production, processing & marketing. Weak innovation policy framework (incl IPR system)
- Institutional mechanisms for intra and inter regional ST&I cooperation weak.

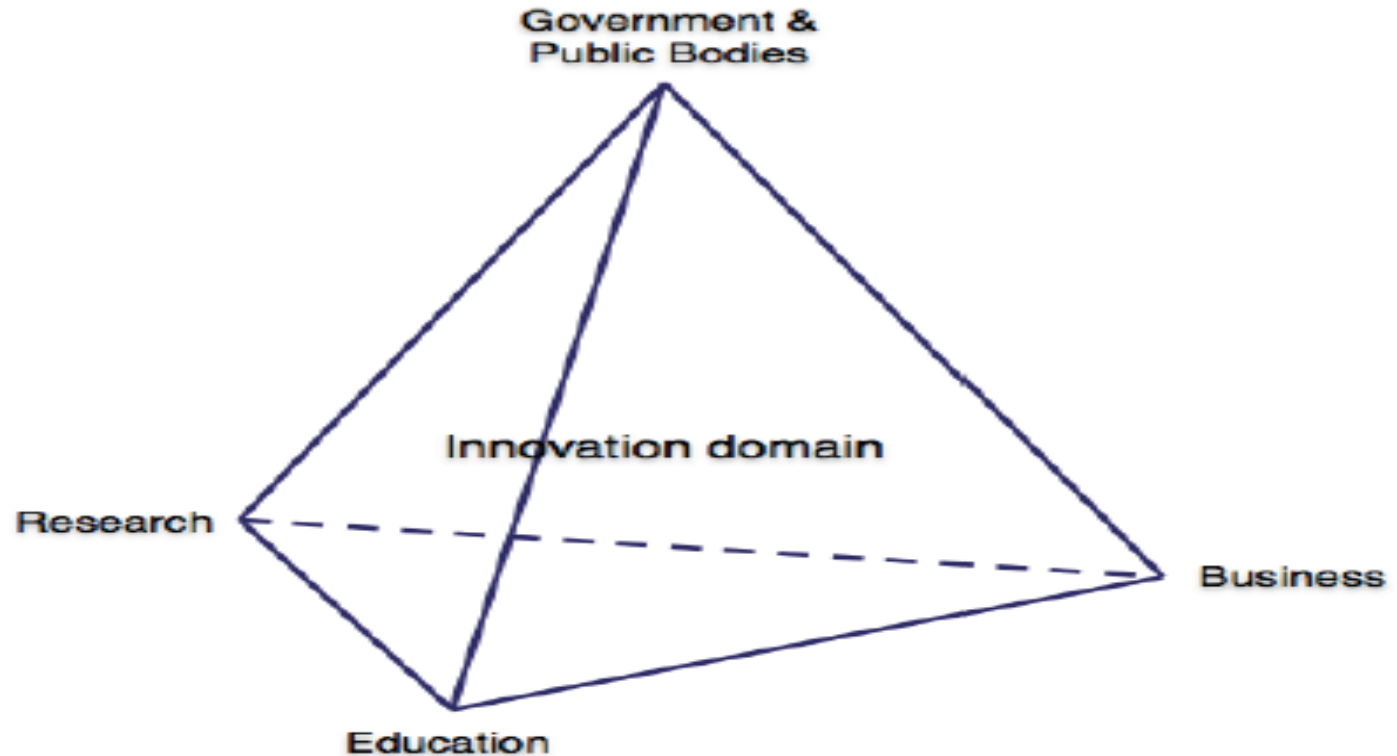
# What is innovation?

- An interactive process (continuous/systemic) – adding value to knowledge for socio-economic gain);
  - **Input** – knowledge, science, technology, resources, capital;
  - **Key elements** - Learning & linkages
  - **Outputs** – new/improved products, services, markets, jobs, income, well being etc
- An **innovation system** (IS) consists of a **network of actors** who *demand, create, diffuse and use knowledge* within an institutional and economic framework. IS cannot be **created** or **developed** (Edquist, 1997). Environment for innovation is important.

# The Knowledge Triangle



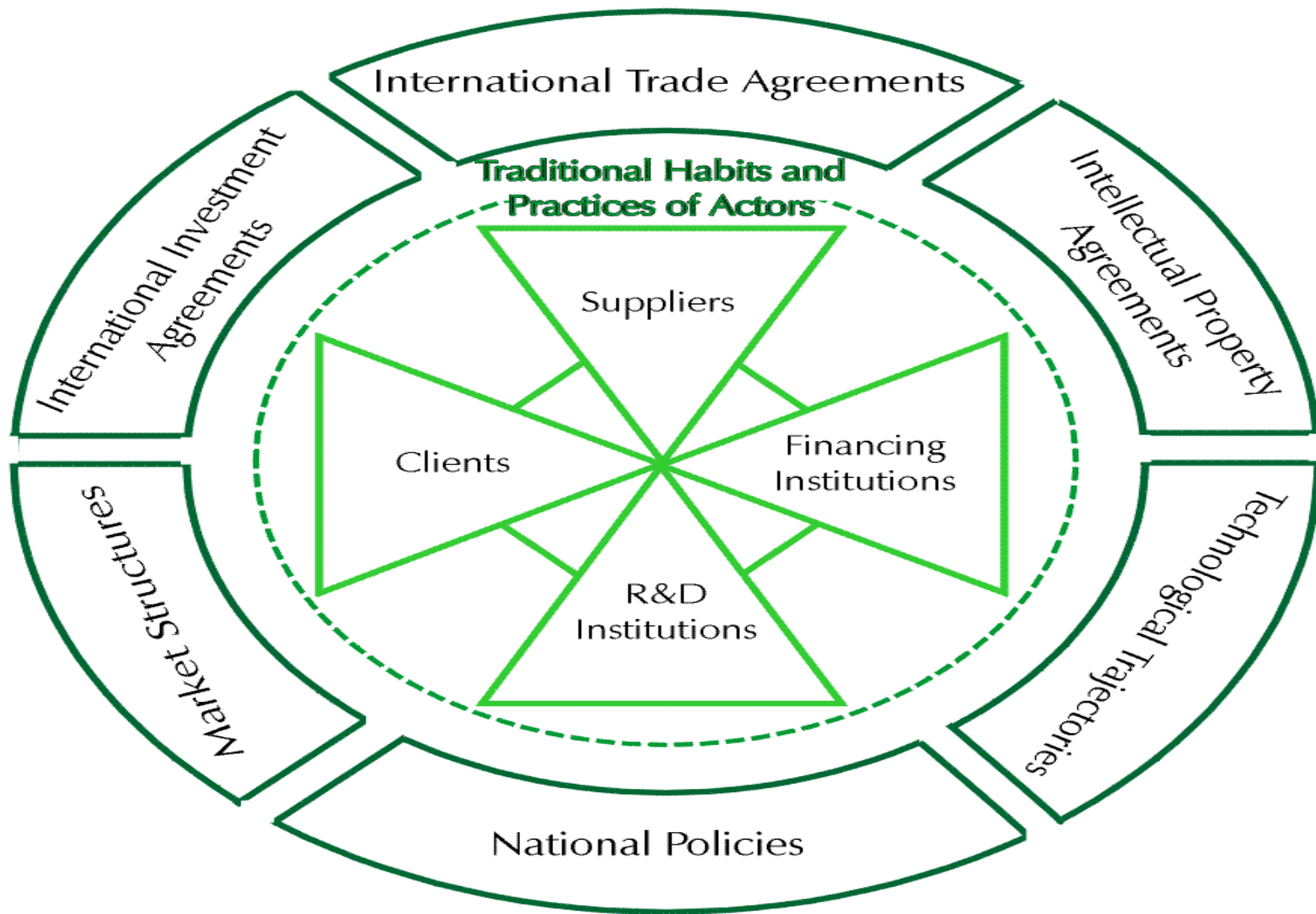
# Innovation Pyramid



Source: Climate-KIC Business Plan

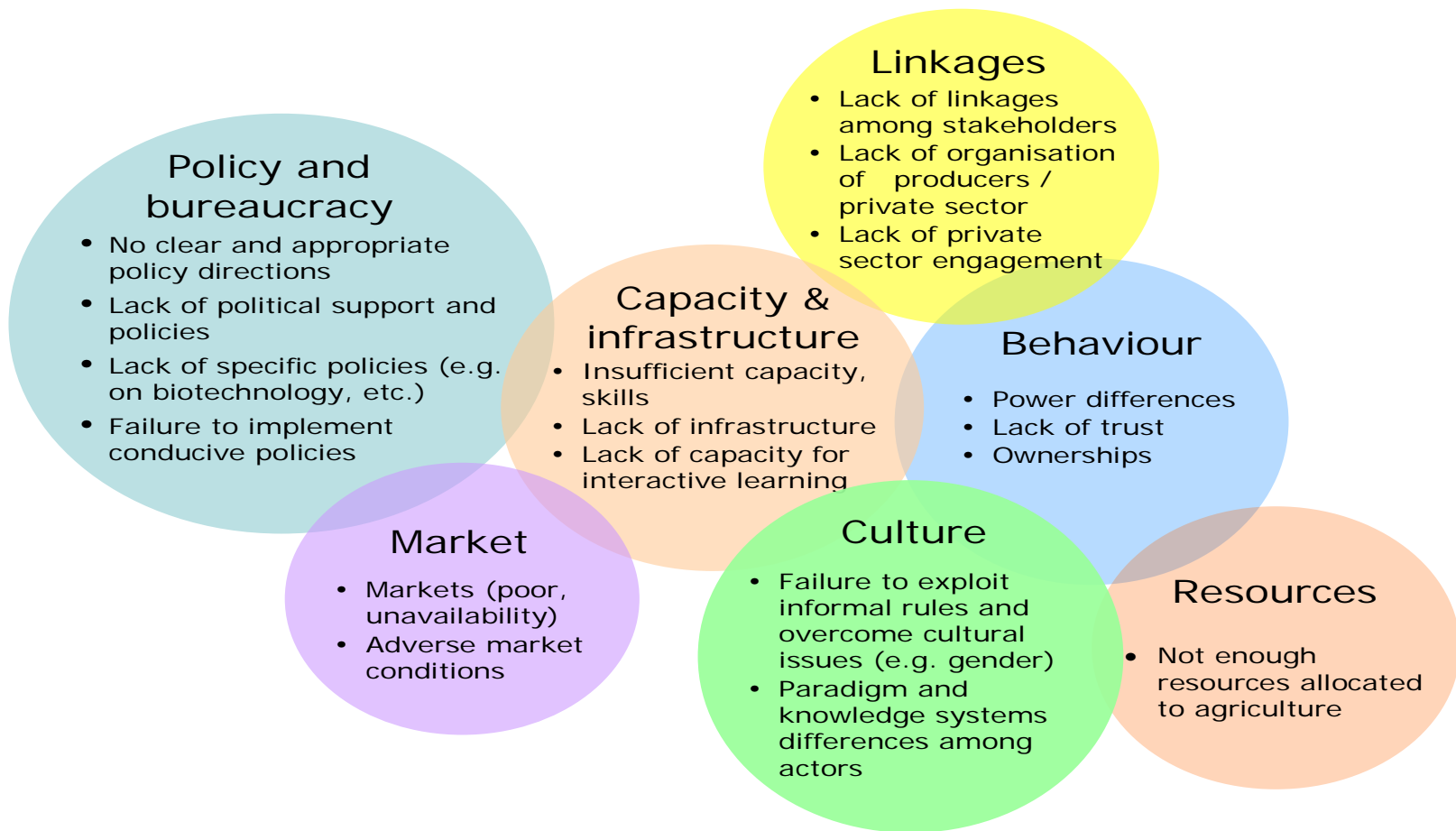
In - Report of European Inst of Innovation and Technology, June 2012. p.11

# Innovation Systems





# Factors that hinder innovation



# S&T Cooperation

- Push (e.g. policymakers) vs pull (e.g. market)
- Small (e.g. farmer) vs large (e.g. agro-industry)
- Private (e.g. multinational) / public (university)
- Well resourced (developed - capacitated) / under-resourced (developing - under-capacitated)
- Emerging issues

# S&T Policy Dialogue

- Politization of science vs scientization of policy
- Engaged vs the neutral scientists
- Demand for certainty from policy-makers vs inherent uncertainty of science
- Different motivations and time scales of the policymaking and scientific communities
- Specialized expertise vs democratization of knowledge
- *Formal science & indigenous knowledge*

# Enhancing the S&T Policy Dialogue

- Know / understand / appreciate / be sensitive to the policy priorities
- Target ST&I information to the needs of specific policy actors (agenda setting, implementation, evaluation)
- Use intermediaries / knowledge brokers
- Foster interactions and deliberations
- Provide policy options – research relevance
- Improve public understanding of ST&I

Thank you  
Merci



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