

CleanNet:

A Network of Climate Technology Development & Diffusion Centers

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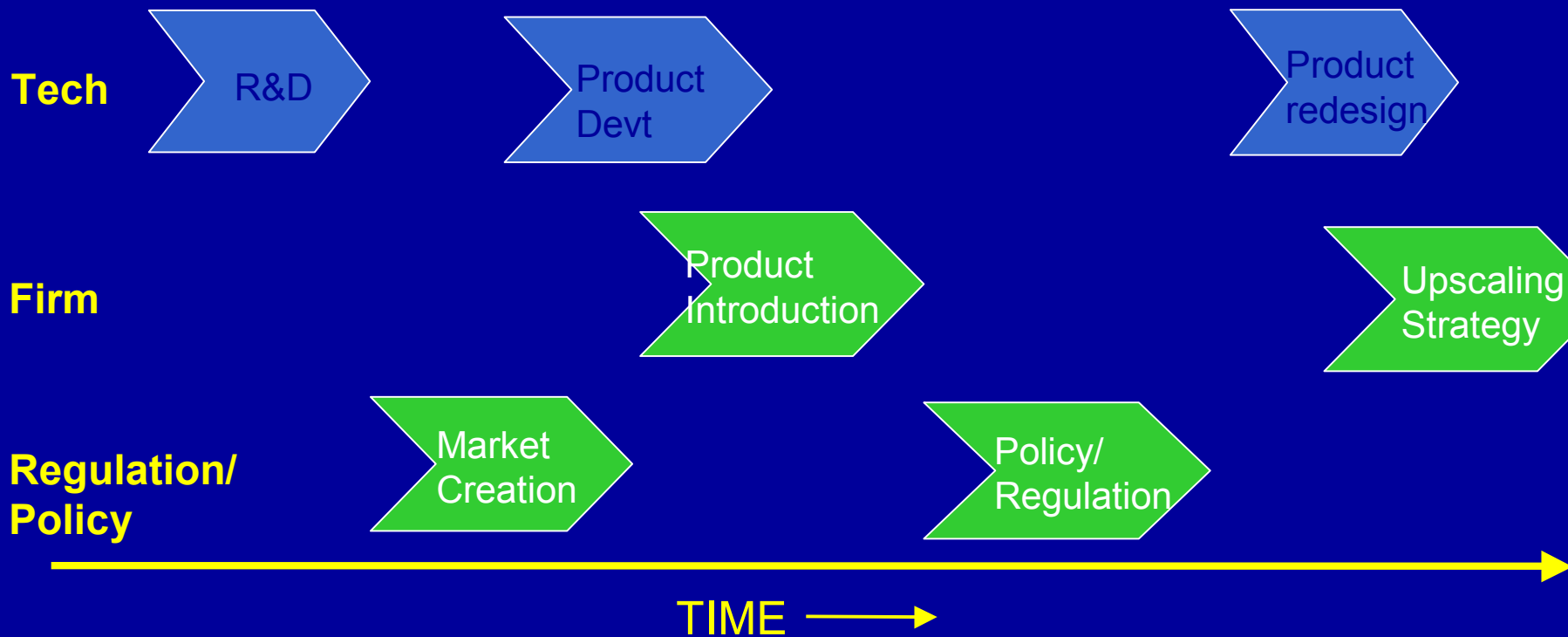
Background/Rationale

- Enormous climate-related challenges facing developing countries
 - Increase energy access
 - Enhance energy efficiency
 - Increase share of modern renewables
 - Enhance resilience to adverse impacts
- Need technology innovation that is shaped by local needs and rooted in local context to meet these challenges
- Need climate-technology development & diffusion capacity in developing countries in order to meet these challenges effectively and efficiently

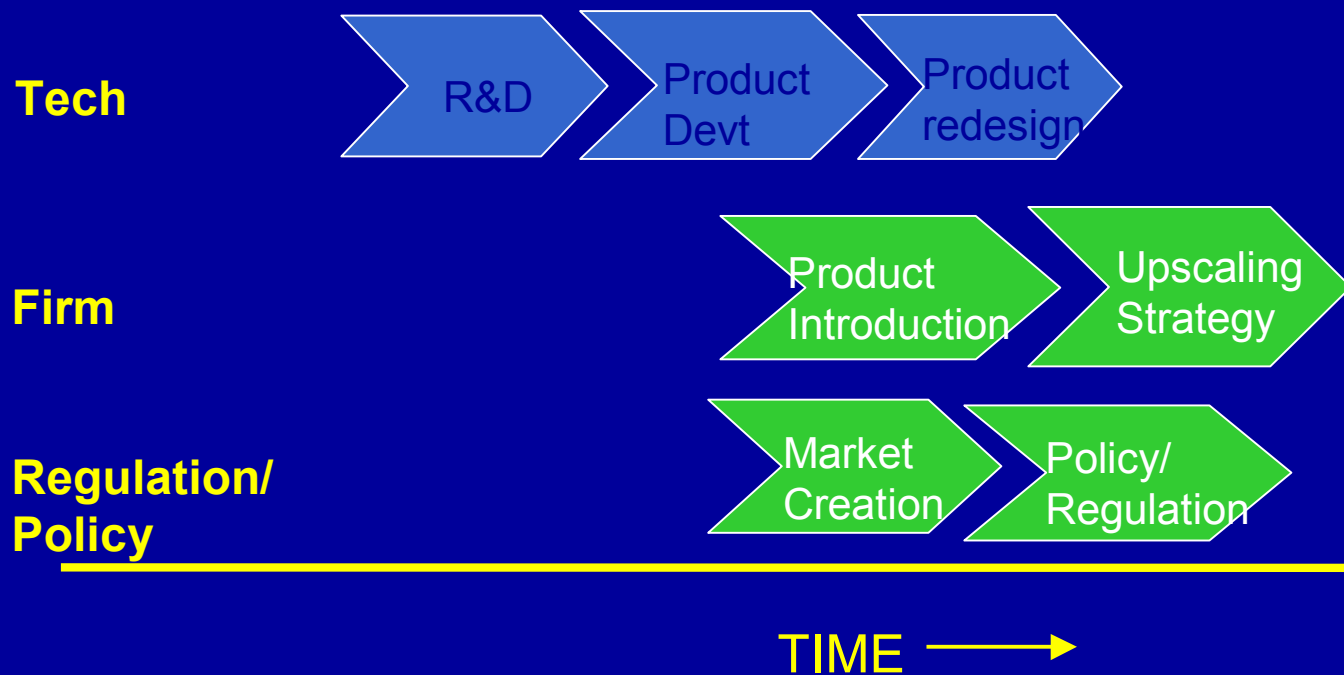
Case Study: Biomass for decentralized energy services

- Large use of biomass in all developing countries – use is normally inefficient and dirty
- With increasing incomes, users shift to fossil fuels – which are cleaner and more convenient – but have positive GHG emissions
- Market for clean, convenient and affordable biomass technologies which meet cooking and lighting needs
- Lack of appropriate products
 - Poor quality products, marketed by small entrepreneurs, with limited external financial and technical support
 - Negligible participation of larger private-sector players
 - Fragmented markets without standardization
 - Inadequate policy and regulatory support

- Successful development and diffusion requires *acceptable* products in *viable* markets, with *profitable* firms
- Technology development, strategy of firms, and public policy all feed into success
- Disjointed efforts – BAU – leads to long innovation times



- Each CTC will aim to address the diverse range of technology, business, and regulatory barriers to the development and diffusion of a specific technology
- *Allow technology leapfrogging to take place at scale – and faster and more effectively than BAU*



- CTCs cross-fertilize each other by sharing of “learning-by-doing” experience

Range of CTC activities:

- **State-of-engineering product development**
 - Refinement and adaptation of commercial technologies to meet local conditions
 - Joint applied R&D on emerging technologies
 - Development of technologies and products to advance provision of energy services for energy poor and rural areas
- **Development of appropriate business models**
 - Exploration and development of innovative delivery models to overcome lack of 'traditional markets'
 - Training entrepreneurs, incubating enterprises
 - Capacity building: create local capability in technical and business skills, facilitating networks
- **Policy & market research/analysis: support regulatory and policy development**

Operations and governance:

- Report to CoP through global mechanisms
- International governing board but majority of representation from non-Annex-I countries
- Financed by contributions by all interested Parties, but principally by Annex-1 Parties
- Professional international administrators for managing operations
- In-house researchers from both Annex-1 and non Annex-1 countries (true North-South-South collaborations)
- Link up to regional academic organizations, government laboratories, NGOs, and private firms
- Facilitate sharing of IPRs