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**Embassy of Switzerland**  
Swiss Agency for Development and Cooperation - SDC

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# **Fast Tracking Energy Conservation in Micro, Small, and Medium Enterprises**

## **Inaugural Address**

By

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## Indian Micro, Small and Medium Enterprise (MSME) Sector: size and importance

**26 million** MSME units providing employment to about **59 million people**

**6000 products** – traditional to high-tech; accounts for **45%** of manufacturing output

**40% of India's total exports** comes from MSMEs

## **Energy Intensity in MSME Sector**

- While MSME sector play a **critical role in Indian economy**, they are also **energy intensive** and **dispersed** in clusters.
- A TERI review shows that of 393 manufacturing (industry) **clusters**, at least 178 clusters are energy-intensive and have **potential for high or medium level of energy savings**
- Review also revealed that:
  - Many energy-intensive small-scale sectors do **not** figure among the identified clusters—a typical example being the brick industry.
  - Knowledge gap on energy consumption patterns** in the Indian small-scale industry



# SDC's Engagement in MSME Sector: an example of energy conservation in MSME



Initiated in **1994** with TERI, the partnership has evolved over four phases and now in **fifth phase**



# TERI-SDC Partnership (TSP)

TERI Industrial  
Energy Efficiency  
Division

TERI-SDC Partnership

TERI Energy  
Environment Tech.  
Dev. Division

**A: Energy Efficiency in  
Micro, Small and Medium  
Enterprises (MSME)**

**B: Biomass energy  
(renewable energy)**

Dissemination

Foundry

Dissemination

Brick

Closure

Glass

Dissemination

Thermal  
Gasifier

for small industries

R&D + pre-Diss.

Power  
gasifier

for decentralised  
power generation

- Entrepreneurs
- Manufacturers
- Local service providers
- NGOs (social action)

- Danish Tech. University
- Sorane SA (CH)
- NTPC

Entrepreneurs & workers

Entrepreneurs

Rural villages/ people



## TERI-SDC Partnership (2009-11)

**2009–11 Phase** focuses on **technology delivery models** in different clusters – Coimbatore, Rajkot, Ahmedabad, Firozabad, etc.

Focus on: **Foundry, Brick and Glass** clusters

Established a **Knowledge sharing platform** – **SAMEEEKSHA** – Small And Medium Enterprises:  
Energy Efficiency Knowledge Sharing

SAMEEEKSHA partners: Bureau of Energy Efficiency, Ministry of MSME, TERI and SDC

TERI-REEEP-SDC Workshop Coimbatore Oct 2010

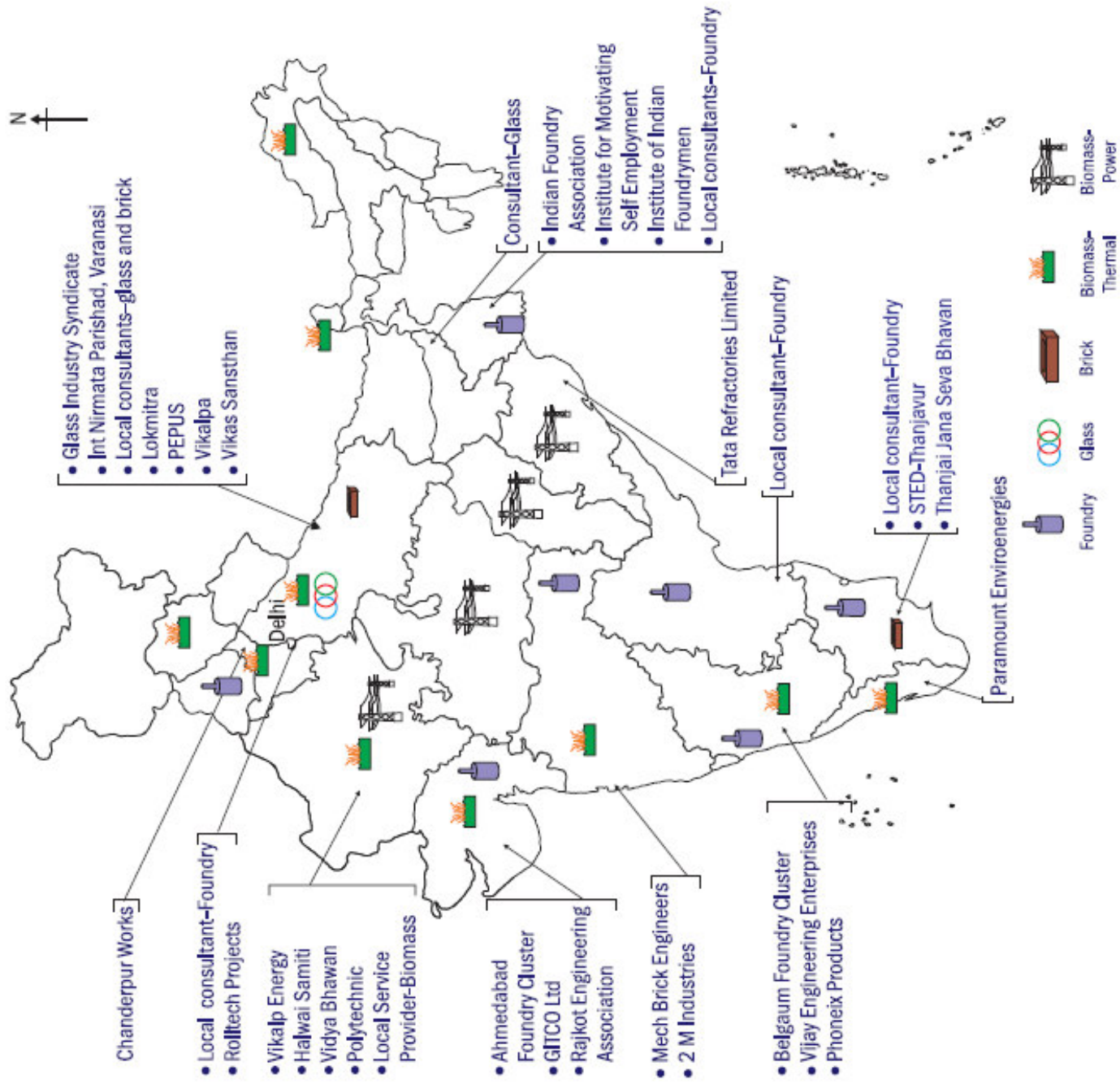
COP 16 side event Cancun



## TERI-SDC Partnership (1994-2008)

- baseline study and sub sector identification
- action research for technology development & demonstration
- fine tuning & demo units, pilot replications & integration of social action in technology interventions
- CoSMile: Competence network for Small & Micro Learning Enterprises









## Lessons from Teri-SDC Partnership (TSP) for up-scaling

### ■ Present status of replications:

- Number of **replications**: about **600 units**
- Estimated **energy savings** : **140,000 tonnes of oil equivalent**
- Approx. **500,000 tonnes of CO<sub>2</sub> reductions**

### ■ Scaling-up would require:

- **Support to R&D efforts** : Critical for accelerating the adoption of energy efficient technologies and practices
- **Strengthening of existing national institutions as technology nodes**: Preferred route for accelerated diffusion and transfer of technologies in the SME sector deriving from **CoSMiLE's model** for **technology development and diffusion**



# SDC's Global Programme on Climate Change

- **A global initiative for a global issue** focuses primarily on China, India, South Africa and the Andean region

- **Mitigation – Avoid the unmanageable**

- Reduction of greenhouse gases by **supporting low-carbon development pathways** – clean energy, energy efficiency and reduction of deforestation

- **Adaptation – Manage the unavoidable**

- **Climate-resilient development** focusing on sustainable management of soil, water sources and forests; and disaster risk reduction

- **A global deal for a global issue**

- **Policy dialogue** on climate with focus on multilateral and national levels



# Indo-Swiss Cooperation in Climate Change in India

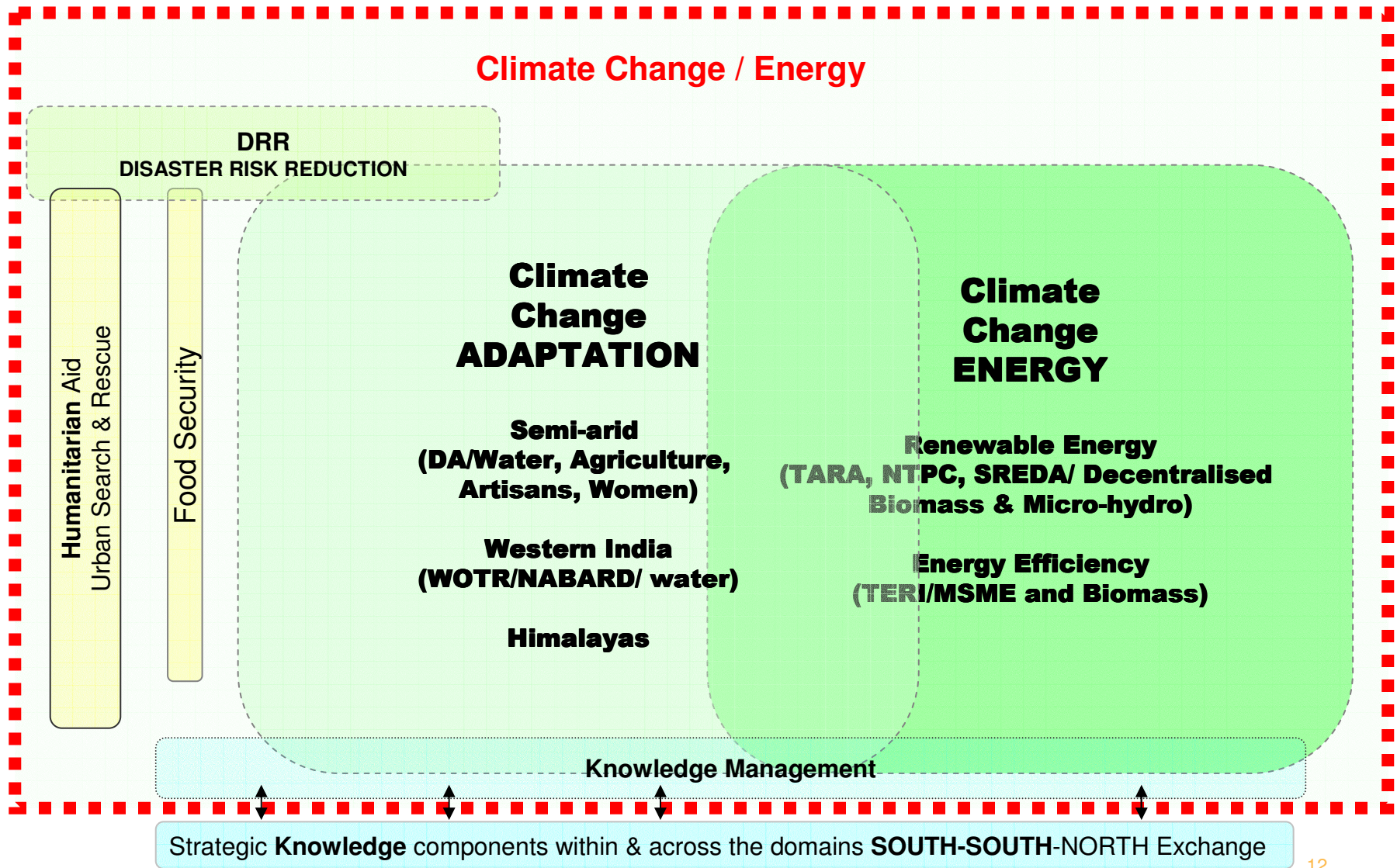
## ■ Partnership India – Switzerland

on a *new Strategic Level*, emphasis on

- **common Indo-Swiss interests and expertise**, notably in the area of **climate change**, energy and development,
- **multi-stakeholder**, interdisciplinary and multi-level partnerships
- **linking** grassroots/implementation lessons & views to policy debate, **science** and **knowledge** sharing
- **South South** and **South North South Exchange**



# Global Programme on Climate Change India 2011





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**...we look forward to cooperate  
with you in future ...**

**thank you**