



REPIC

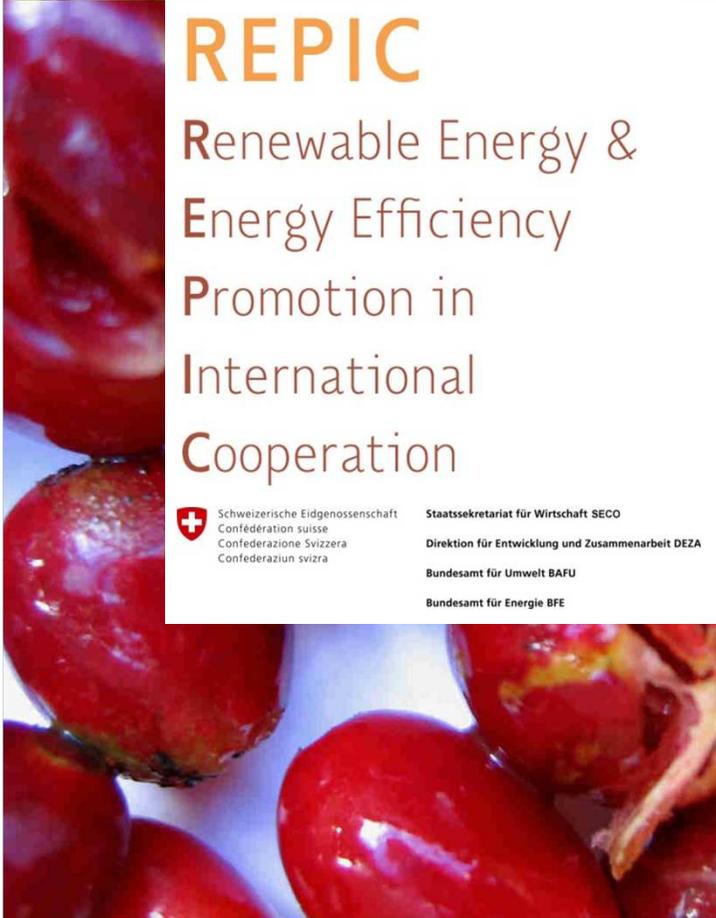
Renewable Energy &
Energy Efficiency
Promotion in
International
Cooperation



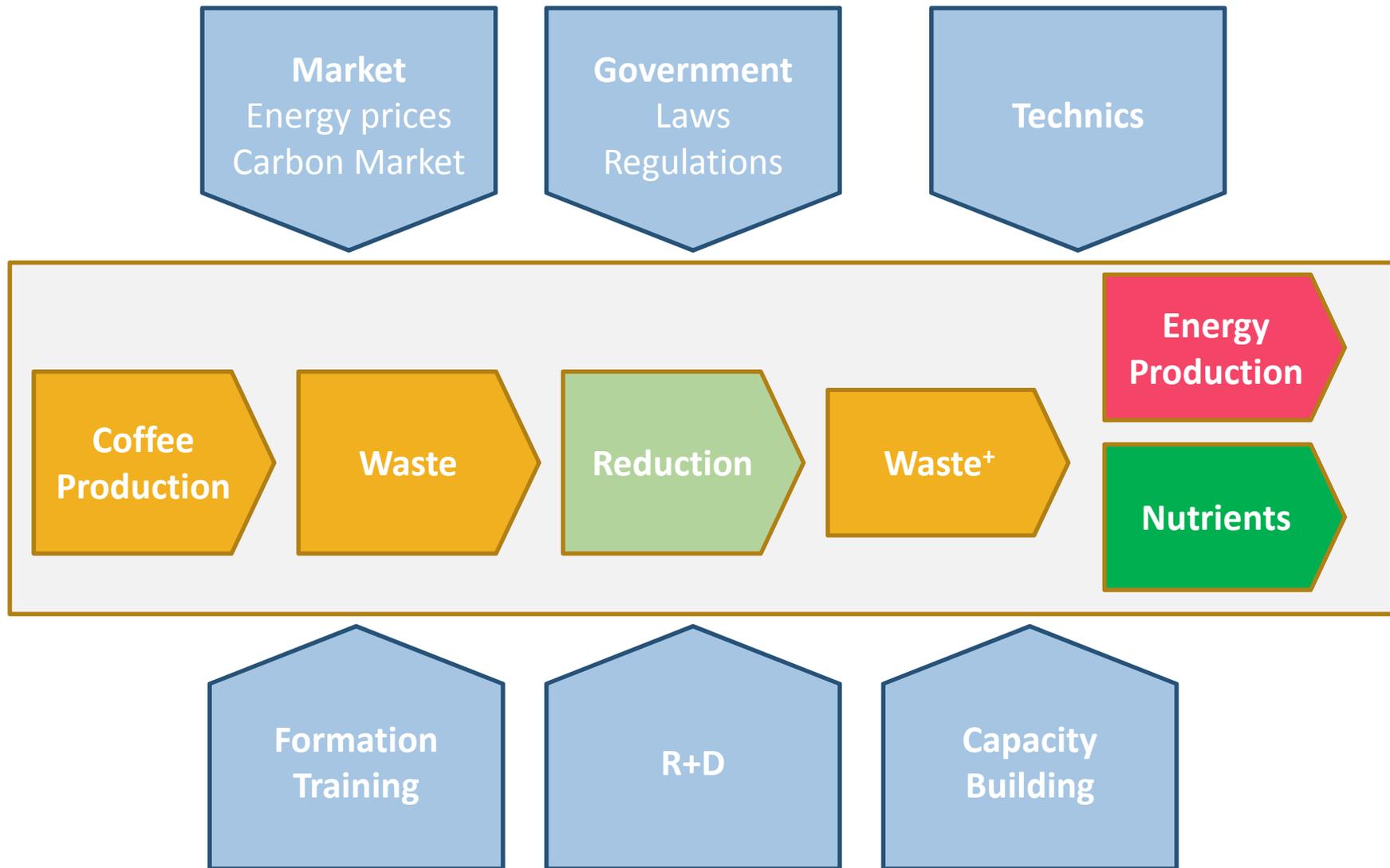
Schweizerische Eidgenossenschaft
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Staatssekretariat für Wirtschaft SECO
Direktion für Entwicklung und Zusammenarbeit DEZA
Bundesamt für Umwelt BAFU
Bundesamt für Energie BFE

Energetic Use of Residues from Coffee Production in Central and South America, 21 of June 2011, Zollikon/Zürich: Conference Summary



Framework



Economic Viability

Revenues

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Investments + Costs

- Energy
- Carbon Market
- Cost Reduction
 - Water
 - Fertilizer
 - ...
- Environmental/social services
- Higher prices

Rating of existing technics

Technic	State of development	Economic Viability	Ecological Benefit	Complexity of Implementation
Combustion	Research/P+D	?	2	?
Pyrolysis	Research/P+D	?	1	3
Biogas	Market-ready	1 – 3	1	3
Ethanol/ Biodiesel	Market-ready	3	2	2
Products for Nutrition Cosmetology	Research/P+D Market-ready?	?	2	3

Main obstacles

- **Social Level**
 - Lack of acceptance
- **Technology**
 - Technological risks
 - Insufficient knowledge / Capacity building
 - Lack of simple models / technology for small farmers
- **Economic Viability**
 - Missing Business case & «good examples» / simple models
- **Political Level**
 - Lack of subsidies
 - Insufficient legal requirements or controls
- **Logistical Level**

Conclusions

- On the technical level there are a lot of possibilities!
- Biogas production from waste water (and ethanol production) are state of the art!
- P+D-Installations /-projects (good examples!) and «Research» are important. Particularly for the non-technical aspects!
 - Capacity Building / Knowledge Transfer -> Community/Think Tank
 - Business models in a complex framework
 - Change of cultures, Formation/Training
 - Logistic / Organization / Co-Fermentation
 - Environmental Services / Carbon Market
 - Joint Projects Coffee Producers – Project Developers
 - PPP
- SECO should support projects in this fields