

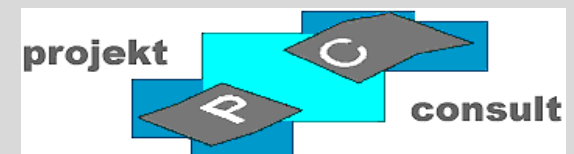
THE MILLENNIUM DEVELOPMENT GOALS AND SMALL-SCALE MINING
CONFERENCE FOR FORGING PARTNERSHIPS FOR ACTION, Washington, 2005

Ensuring Environmental Sustainability

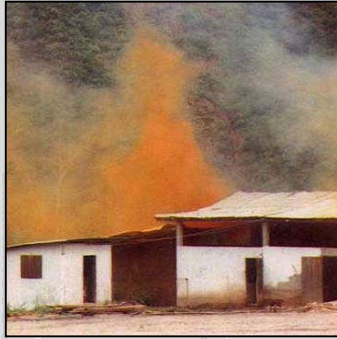
Strategy of projects

supported by the **Swiss Agency for Development and Cooperation**
and implemented by **projekt-consult**
(1993 – 2005)

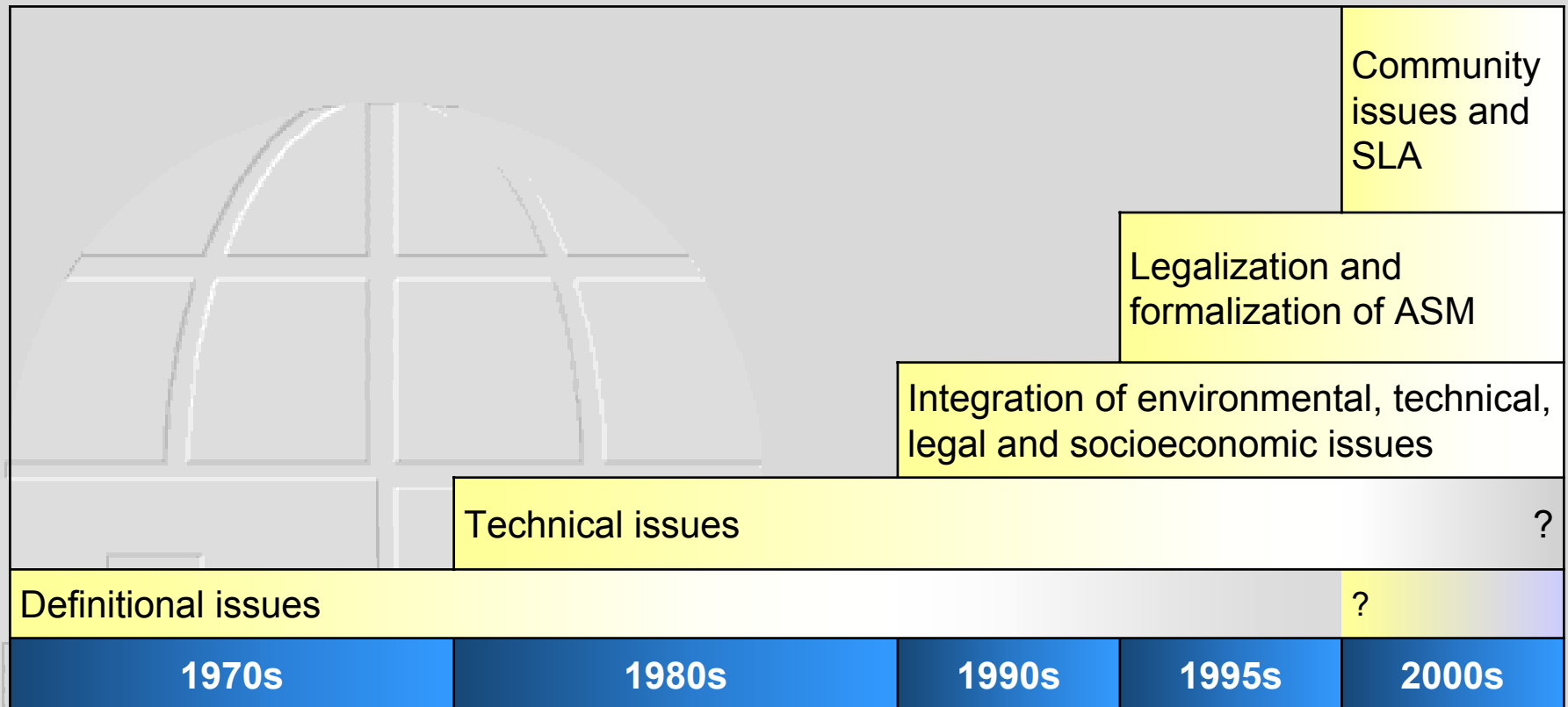
Felix Hruschka



Environmental problems of ASM



General evolution of approaches in ASM projects



SDC funded artisanal mining projects

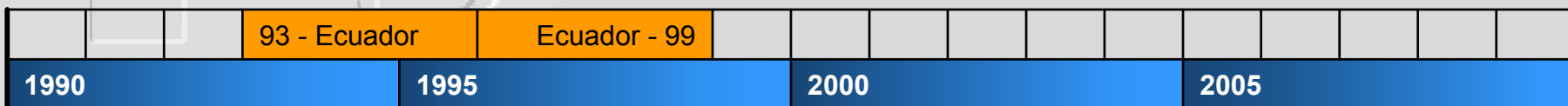


The Swiss Agency for Development and Cooperation (SDC) has supported, since 1993, a series of **environmental projects** for the ASM sector of the Andean countries Ecuador, Bolivia and Peru.

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									Pe.	00 - Peru		Peru							to define	
										94 - Bolivia		Bolivia								
										93 - Ecuador		Ecuador - 99								
1990					1995					2000					2005					

Example SDC projects (1): PMSC Ecuador

- Project life span: 1993-1999
- Extension: Local (mining area Zaruma-Portovelo)
- Project started with focus on the development and implementation of technical solutions for the mercury pollution due to ASM in Southern Ecuador
- Project evolved focusing on:
 - Proposals for technical solutions of most environmental issues
 - Pilot implementation of legal solutions by collective EIA's (developed, approved and applied)
 - Incorporation of environmental and occupational health issues



Example SDC projects (1): PMSC Ecuador



Sustainability of environmental know how:

Workgroup from counterpart NGO transformed into consulting company offering technical assistance services to miners.

		93 - Ecuador	Ecuador - 99	Sustainability of know how	
1990		1995		2000	2005



Example SDC projects (2): MEDMIN Bolivia

- Project life span: 1994-2005
- Extension: National (La Paz and cooperative and small-scale mining centers in the entire country)
- Project started with focus on the development of technological solutions for **pollution** through ASM activities and their dissemination
- Project evolved focusing on:
 - Financing schemes for environmental measures
 - Policy dialogue

			94 - Bolivia	Bolivia	Bolivia	- 95				
			93 - Ecuador	Ecuador - 99	Sustainability of know how					
1990	1995			2000			2005			



Example SDC projects (2): MEDMIN Bolivia



Institutional sustainability:

- Institutional outline changed from a working group under the national environmental fund towards a foundation
- Foundation offers technical assistance services, environmental services, general studies and capacity building as required by different national and international institutions and clients.
- Services include non-technical issues like eradication of child labor, etc.

			94 - Bolivia	Bolivia	Bolivia	- 95	Institutional sustainability
			93 - Ecuador	Ecuador - 99	Sustainability of know how		
1990	1995			2000		2005	



Example SDC projects (3): GAMA Peru

- Project Phase I: 2000-2002
- Extension: National (macro level)
Southern Peru (micro level)
- Counterpart: Ministry of Energy and Mines
- Initial project approach: **The environmental problems require technical solutions**, but: **The implementation of these solutions requires an integral, community-oriented approach, focusing all relevant social, cultural, organizational, health related, economic and legal issues**
- Main results: Legal framework for ASM, Organization of ASM sector, Hg community retorts



								Pe.	00 - Peru	Peru	<i>In planning</i>	
			94 - Bolivia	Bolivia					Bolivia	- 95	Institutional sustainability	
			93 - Ecuador	Ecuador - 99					Sustainability of know how			
1990			1995			2000			2005			



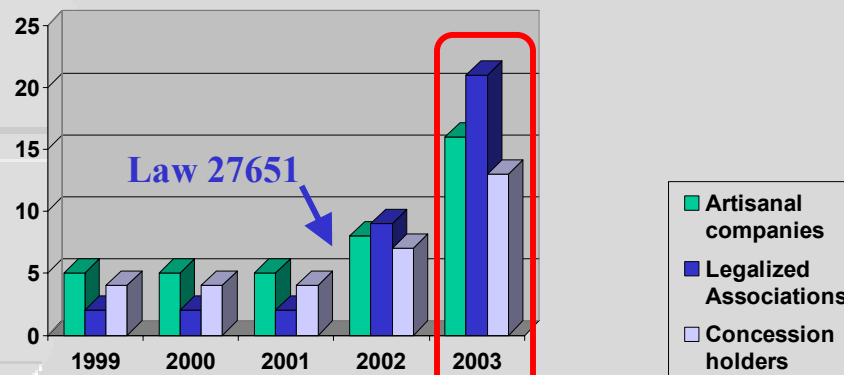
Example SDC projects (3): GAMA Peru

- Project Phase II: 2003-2005
- Extension: National (macro level)
Southern Peru (micro level)
- Counterparts: Regional Governments (decentralization)
- Involuntary sustainability test: project hibernation during 2003



Sustainability of process

Integration of ASM into formal economy, starting to comply with environmental requirements



							Pe.	00 - Peru		Peru	<i>In planning</i>
			94 - Bolivia	Bolivia		Bolivia			- 95		Institutional sustainability
			93 - Ecuador	Ecuador - 99	Sustainability of know how						
1990	1995			2000			2005				



Example SDC projects (3): GAMA Peru

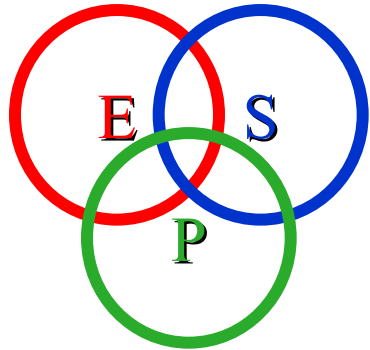
- Project Phase II: 2003-2005
- Project evolved focusing on:

Empowerment of artisanal miners, by

1. **Enterprise management capacity** building among the new artisanal entrepreneurs, in order to **strengthen the ongoing formalization process**
2. **Technical assistance** promoting the **implementation of environmentally sound technologies** and **improving mine safety**
3. **Socio-organizational issues: Strengthening local and regional organizations of artisanal miners**

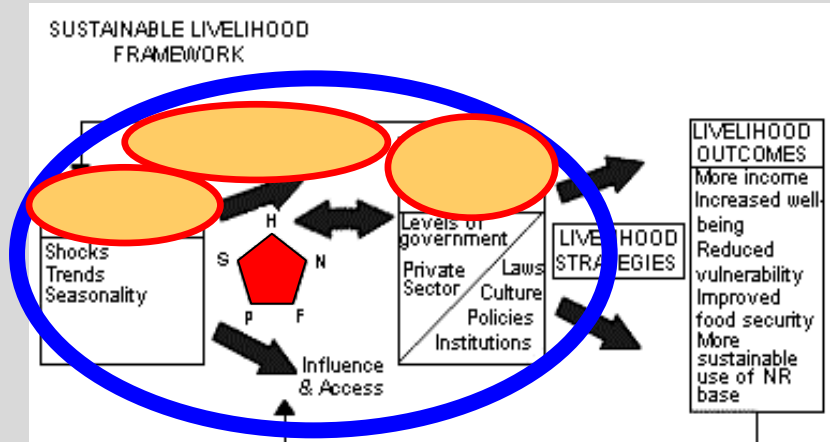
								Pe.	00 - Peru	Peru	<i>In planning</i>	
			94 - Bolivia	Bolivia	Bolivia					- 95	Institutional sustainability	
			93 - Ecuador	Ecuador - 99							Sustainability of know how	
1990				1995					2000			2005

Empowerment Approach



- **Economic empowerment**
- **Social empowerment**
- **Political empowerment**

Sustainable Livelihoods Approach



- + Increasing and protecting assets by Economic Empowerment
- + Reducing vulnerabilities by Social Empowerment
- + Sustainable processes by Political Empowerment

= Contributing to MDGs



Back to the bases: Example from field work 2005



Inauguration of a community retort in Southern Peru in “Base Rey” by the “Presidente Regional de Arequipa”

Economic Empowerment: Protecting environment and health of the community, by recovering monthly about 10 kg of mercury for reuse (= sales of USD 4,000 per year)

Social Empowerment: Retort built by strengthened and legalized organization of artisanal miners; Hg sales are designated for community activities

Political Empowerment: The miners of the recently formalized ASM community (formerly considered an “illegal settlement of a bunch of outlaws”) invited the Regional Governor to lead the inauguration ceremony, who accepted, and for the first time ever visited the community.

Thank You
Muchas Gracias

