



Innovations in Public Investment

XX

and Employment Programm

1+20

Innovations dans les investissements et les

programmes publics pour l'emploi

SESSION 5

DELIVERING DEVELOPMENT INFRASTRUCTURE

This session:

The A

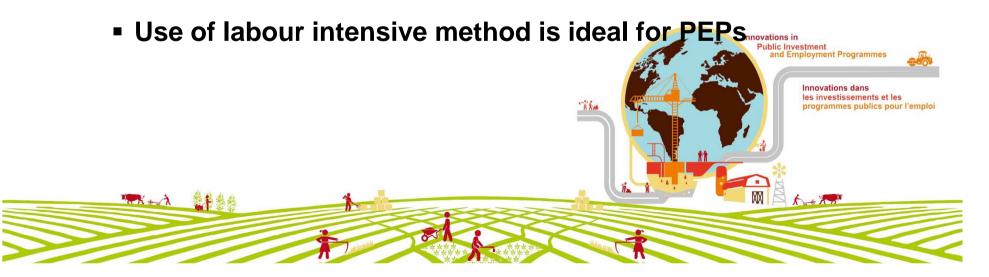
Potential job creation
Key issues to consider
Employment effects





Infrastructure- traditional focus of PEPs

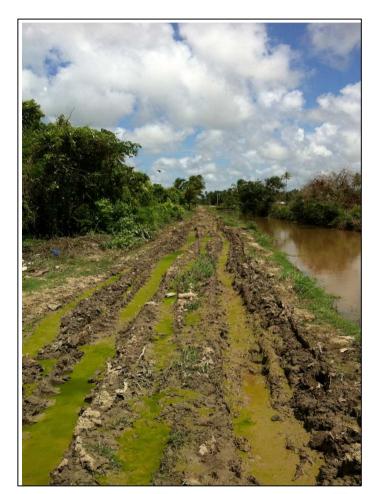
- demand from developing countries for infrastructure investment and maintenance amounts to US\$900 billion per annum, public funding accounting for 70–75%
- regular investment spending in infrastructure is widely used to expand demand and create and sustain jobs







Rural road access



The A

- 900 million rural dwellers without road access
- Only 30% of rural population in Sub-Saharan Africa has access
- And only 58% in South Asia

Innovations in

XX

Public Investment and Employment Programm

K-+ 10

Innovations dans les investissements et les programmes publics pour l'emploi





Road works - Pavement



Gravel works include excavation and loading, unloading and levelling works using labour

Innovations in

XX

Public Investment and Employment Programm

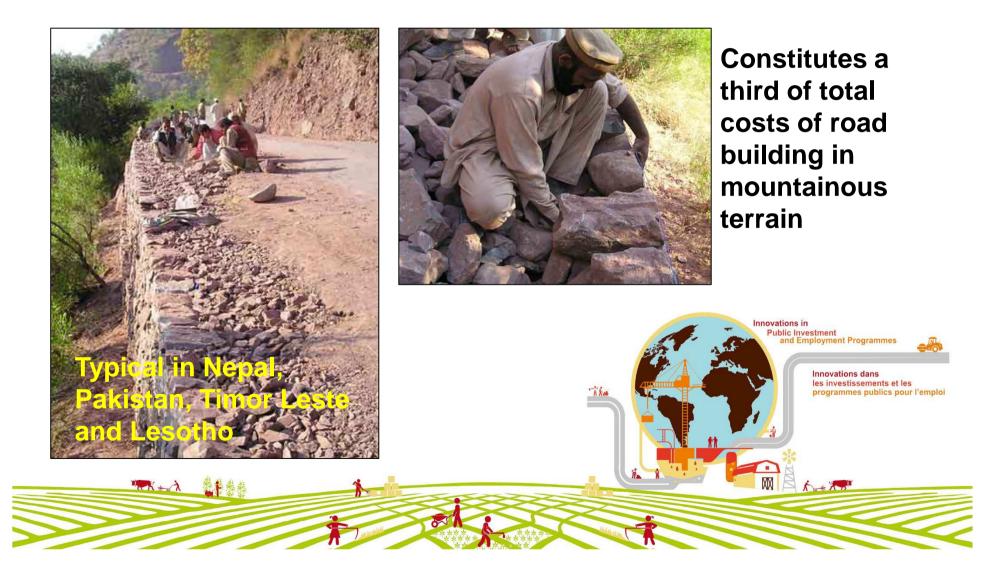
K-+ 10

Innovations dans les investissements et les programmes publics pour l'emploi





Stone masonry







Cobble stone paving

Creates lot of jobs:15,000 – 20,000 PD per km or about 2-3 PD per square meter (sqm)







Irrigation

- Irrigation works involve significant amounts of earthwork, which can be carried out using manual labour
- Wages can be used for investing in improved farming practices
- Labour input on main canals from 2,500 to 5,000 workday per km
- Wages comprise over 50% of total costs

The A







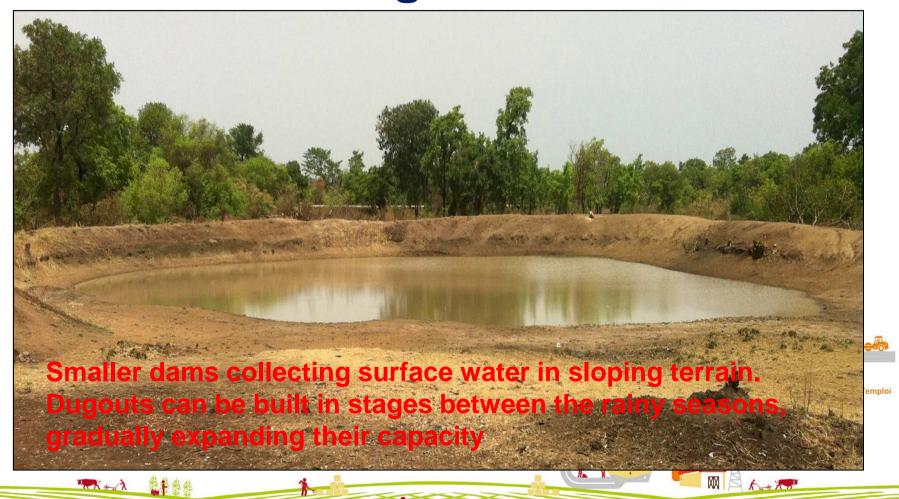
Small earth dams







Dugouts





Key issues

Materials, tools, equipment

FIIP

Employment Intensive Investment Programme

- Technical inputs: design, supervision
- Implementation technology
- Implementation modality
- Completion
- Productivity
- Maintenance

The A



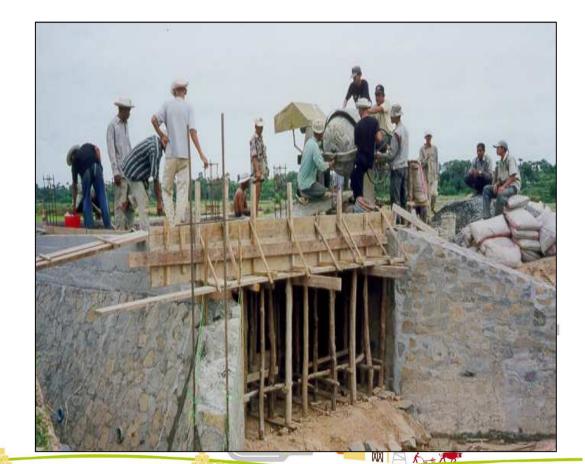




Materials, tools, equipment

- Is split between wages and nonwage costs appropriate for type of infrastructure?
- Logistics to have deliveries on time
- Proper and right amount of tools

The A







Technical inputs: design, supervision

- Proper designs?
- Engineers to supervise/ quality control?
- Skills of workers?
- Address on-site problems / issues
- Collaboration: PEP provides the workers- local government the technical capacity

The A







Task rates

	Cut grass /on verge/ side drains	m²	100 - 150]
Routine road maintenance	Clean culvert /inlet, outfall	m³	1.5 - 2.0		
	Clean side/mitre drains	m³	2.0 - 3.0		
	Repair side drain erosion	m³	3.0 - 5.0		
	Fill pot holes on carriageway	m³	2.0 - 3.0	Gravel roads	
	Fill ruts/minor gullies on carriageway	m²	5.0 - 10		
	Grub edge/shoulder	m²	80 - 100		
	Repair shoulder erosion	m²	5.0 - 10		s ir l'emploi
	Repair culvert headwalls	No	Day work		







Innovations in Public Investment

and Employment Program

Innovations dans les investissements et les programmes publics pour l'emploi

Design Issues

- Selecting beneficiaries and targeting
- Deciding on the number of days of participation
- Maximizing employment potential
- Developing a mechanism for fund allocation
- Selection of infrastructure works
- Selection of procurement modalities
- Determine the wage level
- Promoting good working conditions
- Gender

The A

- Skills training
- Designing M and E mechanism





Implementation technology

Local resource-based (LRB) method

- Technologies make optimum and flexible use of local labour and locally available materials, skills and capacities as main resources, supported by the use of light equipment.
- Local resources may include labour, materials, skills, knowledge, technologies, contractors and service providers, institutions (local government authority, training centres, workers' organization, employers' organizations, non-government organizations, community-based organizations), tools and equipment, and social capital (traditional structures, solidarity and trust).



Innovations in Public Investment

Employment Program

K+X8

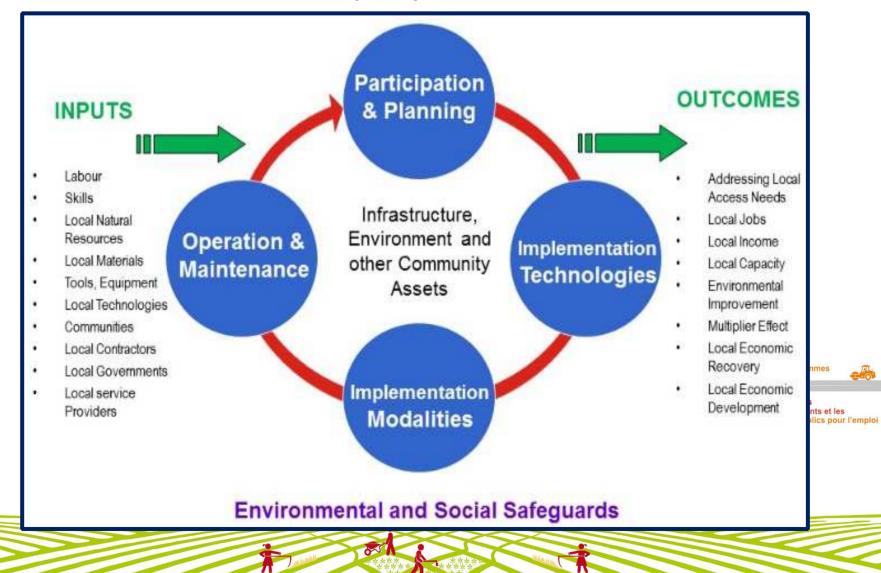
Innovations dans les investissements et les programmes publics pour l'emploi

Source: ILO, Local Resource-Based Approaches to Infrastructure Investment, Source Book, Sub Regional Office for Southern Africa, (2010) XX





Local resource-based (LRB) method







Innovations dans

les investissements et les programmes publics pour l'emploi

Local resource-based (LRB) method

- 25%-70% more spent on wages
- 2-5 times more employment (including multiplier/spin-off effects)
- 10-30% more cost-effective
- Optimum use of locally available resources, supported with equipment
- No compromise on quality standards
- Improved income distribution
- More scope for local participation and inclusion of social protection measures (incl. application of decent work standards)
- More environmentally friendly

The A

- More focus on local capacity development communities public sector and private sector
- Stronger sense of local ownership





 Access infrastructures: low-volume rural roads (rehabilitation and maintenance) and footbridges







 Soil and water conservation: terracing, water harvesting, contour trenches and bunds, gully control check dams, gabion works







 Forestry: afforestation, agro-forestry and bio-engineering stabilization works







 Community irrigation: gravity irrigation channels and intakes, night storage reservoirs, borehole irrigation Public Investment and Employment Programme Innovations dans les investissements et les programmes publics pour l'emploi XX K-+ 20





 Flood protection: embankments and dikes, water diversion structures, drainage works, river training works







 Small community infrastructure: water and sanitation, schools, health centers, fish ponds, etc.



The A









Innovations dans les investissements et les programmes publics pour l'emploi

1+20

XX

Implementation modality

- Implementation by the public sector. Often referred to as "force account", where the public agency takes on the responsibility to design, deliver, supervise, and manage the infrastructure works. During crisis situations, this method is the most preferred in implementing infrastructure works to respond to pressing needs in affected areas. However, this method does not support the use of local resource-based (LRB) approach.
- Contracting the private sector. In developing countries, public agencies often tap the private sector to implement the infrastructure works due to a lack of capacity to deliver. This method systematically uses the LBR approach Innovations in Public Investment ind Employment Programme

Source: ILO, Local Resource-Based Approaches to Infrastructure Investment, Source Book, Sub Regional Office for Southern Africa, (2010).





Innovations dans les investissements et les programmes publics pour l'emploi

1 + 7 0

XX

Implementation modality

Contracting by community-based organizations. This method is a widely applied LRB approach in infrastructure works. The process involves a registered community organization entering into a contractual arrangement with a public agency or a development agency to deliver an asset or a service. The process brings together communities with a need but with meager resources, and organizations or public agencies who have appropriate technical, financial, and organizational resources to meet that need through a contracting approach. As a community contractor, the CBO receives the funds, mobilizes community resources in a systematic and accountable manner, and fulfils its responsibilities described in the signed contract agreement. Innovations in **Public Investment** and Employment Programmes

Source: ILO, Local Resource-Based Approaches to Infrastructure Investment, Source, Book, Sub Regional Office for Southern Africa, (2010).





Completion

- Can work demand be aligned to project need?
- What if material and budget runs out? Or labour days?
- Implementation delays?







K+X

Productivity

- Need to be careful to ensure that a focus on productivity is maintained
- There is a contradiction in the sense that being unproductive creates more employment!

The A Laboratory







Why is maintenance target of **PEPs**?

There is a huge demand on **all types of** infrastructure sector

5 × +

Has the highest employment generation potential of any type of public works: LI rates in the order of 70-80%

Generates long-term/ on-going employment

> Investment d Employment Programme

> > Innovations dans

1+20

les investissements et les programmes publics pour l'emploi

Innovations in

Requires low inputs of equipment and specialised skills Some can be quite simple to meet required standards: i.e. (re)painting the local school



The A



Making PEP Infrastructure Work

Collaboration and partnership

- Ownership / responsibility: Plan with structure of agency that is responsible so that they are part of planning and maintenance - sustainability
- Technical inputs: Ensure designs meet minimum standards are aligned with larger plans
- Non-labour inputs: Mobilize contributions, in particular material and equipment
- Key offer from PEPs: Regular supply of labour-which can be paid for by the PEP instead of the infrastructure owner





Additional Employment Effects



Direct impact

Increased local employment in sector of public investment



Indirect impact

Through the supplier chain of production - higher local demand for supply of materials



Induced impact

More people working stimulates consumption, leads to a boost to the local economy and to higher tax collection and promotes income growth and poverty reduction



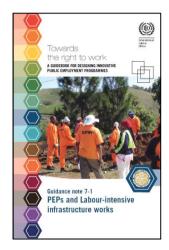
nents et les ublics pour l'emploi



ment-intensive-



More information:



https://www.ilo.org/global/topics/employ

investment/publications/WCMS_55928



https://www.ilo.org/wcmsp5/groups/public/--ed_emp/---emp_policy/--invest/documents/publication/wcms_114960.pdf

G/lang--en/index.htm