



Special Event of the ISWA World Congress 2011

**“Moving Towards Zero Waste for a
Green Economy-
Role of Local Authorities”**

**17-18 October 2011
Daegu, Republic of Korea**

Prof. C. Visvanathan
Environmental Engineering and Management Program
Asian Institute of Technology
Thailand
email: visu@ait.ac.th

Web: <http://www.faculty.ait.ac.th/visu/>

IPLA

- IPLA was the outcome of the 19th "CSD Intersessional Conference on Building Partnerships for moving towards zero waste" officially launched in New York in May 2011.



Target Beneficiaries

- A worldwide knowledge network to all interested stakeholders, with **local Authorities (LAs)** as the prime beneficiaries.



Key Features

- Practice oriented knowledge Network



Dynamic web portal with knowledge products

On principles of ISWM and 3R strategies

- Knowledge generation, documentation and dissemination
- Members can advertise their activities,
- Explore potential new business opportunities,
- Post an expression of interest from private sector
- Post a request for advice
- Participate in windows of interaction

IPLA's VMGs



Vision

To enable LAs to expand their waste management services by up taking waste related infrastructure and services at various stages of waste management services, by promoting/ facilitating meaningful collaboration with a wide range of partners such as governments, business, finance and civil society.

IPLA's VMGs



Mission

To share knowledge, communicate across national boundaries and work to spread best practice in order to accelerate the uptake of waste related infrastructure and services at various stages of waste management such as avoidance, prevention, minimization, segregation, collection, transport, recycling, recovery, reuse, treatment and disposal.

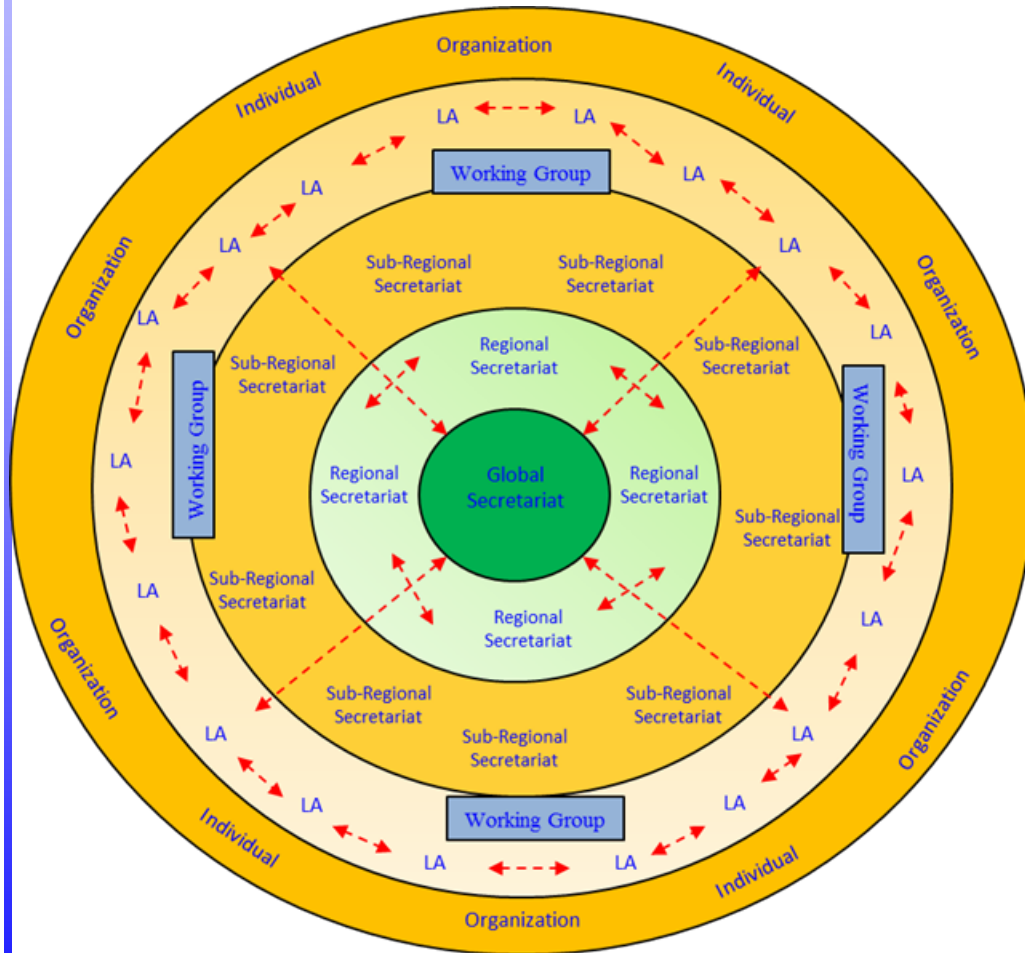
IPLA's VMGs



Goal

The final goal of IPLA is to help LAs move towards a Zero Waste scenario on a global level.

Operational Arrangements



Partners

Global secretariat	Asian Institute of Technology (AIT)
Regional secretariat	UN-HABITAT
Sub-Regional secretariat	REC, SWEEP, NET, SPREP, SACEP, Griffith University and UAESP
International Organization / Donor Agencies	UNESCAP, UNDP-PPPSD, UNU-IAS, OECD, IDB, GIZ, JICA, and etc..
International Association / NGOs	ISWA, CWG, IWWG and etc.

Geographical Coverage



Approximately 120 members as of September 2011

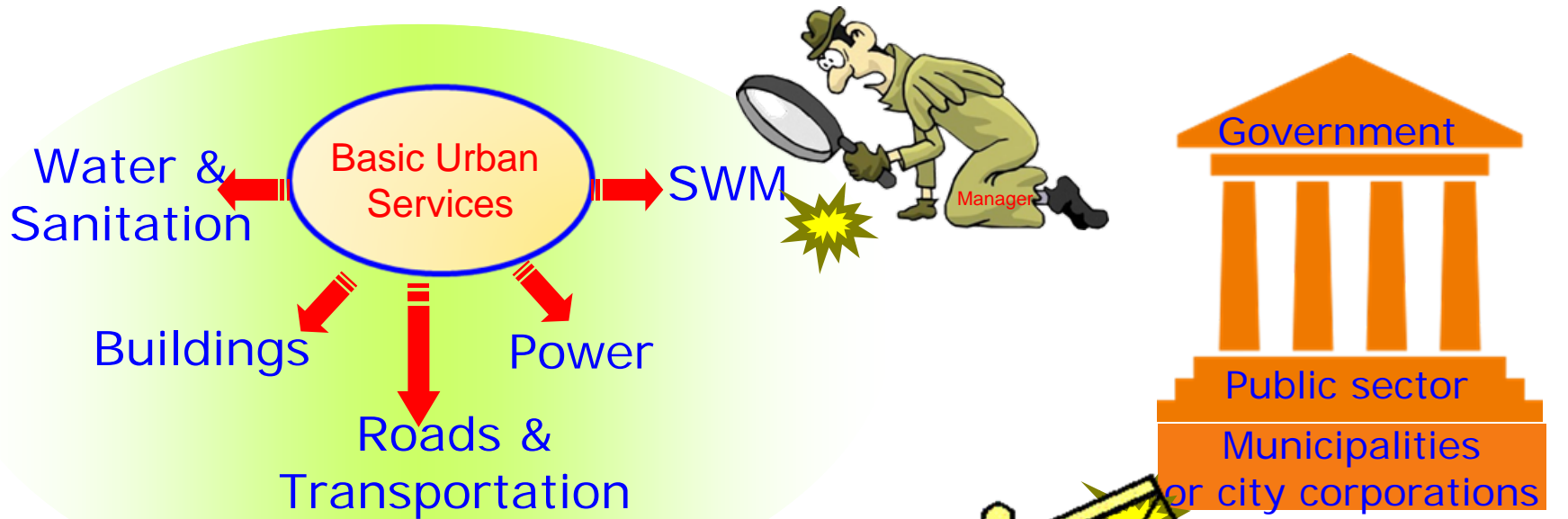
List of partners until now: http://www.uncrd.or.jp/env/ipla/p_list.htm

Why IPLA?

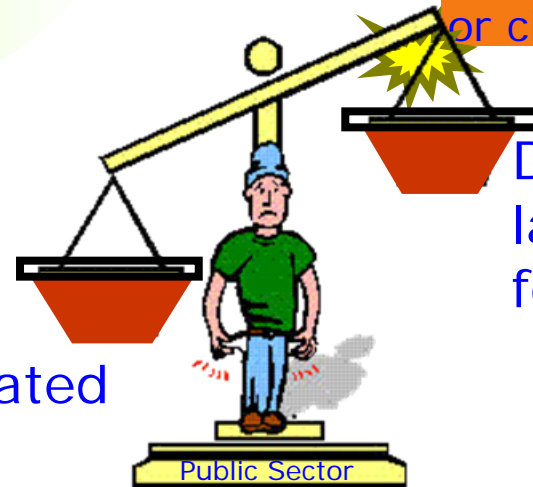
- Conventional SWM by centralized local authorities are not enough for zero waste goal
- There is a scope for private companies to invest in SWM-Green Economy
- A mediator to link among public private sectors and other research and financing institutions is required
- One-stop solution:
 - For strengthening LAs capabilities in SWM
 - Business opportunities for private sector
 - Knowledge generation and R&D



Conventional SWM Approach



Increased population & waste generated



Decreased land available for disposal

SWM as lowest priority, lower budgetary and technical resources, LAs are over exhausted to the challenge of SWM

Presence of Private Sector – Industry Initiatives



**Tetrapak-
Leading
beverage
carton
manufacturer**

New line of
business



**Recycling beverage
cartons – enhances
profitability and
image of company**



Apple

+

**Li Tong
Group**

**Take-back
program for
end-of-life
products**

**Recycling activities
to generate
secondary raw
materials**



Need More, Because...

\$1370 Billion

2008



\$2740 Billion

2020



**Global Market
Volume for
Environmental
Technologies**

\$41 Billion

2008



\$63 Billion

2020



**Share of Waste
Management and
Recycling**

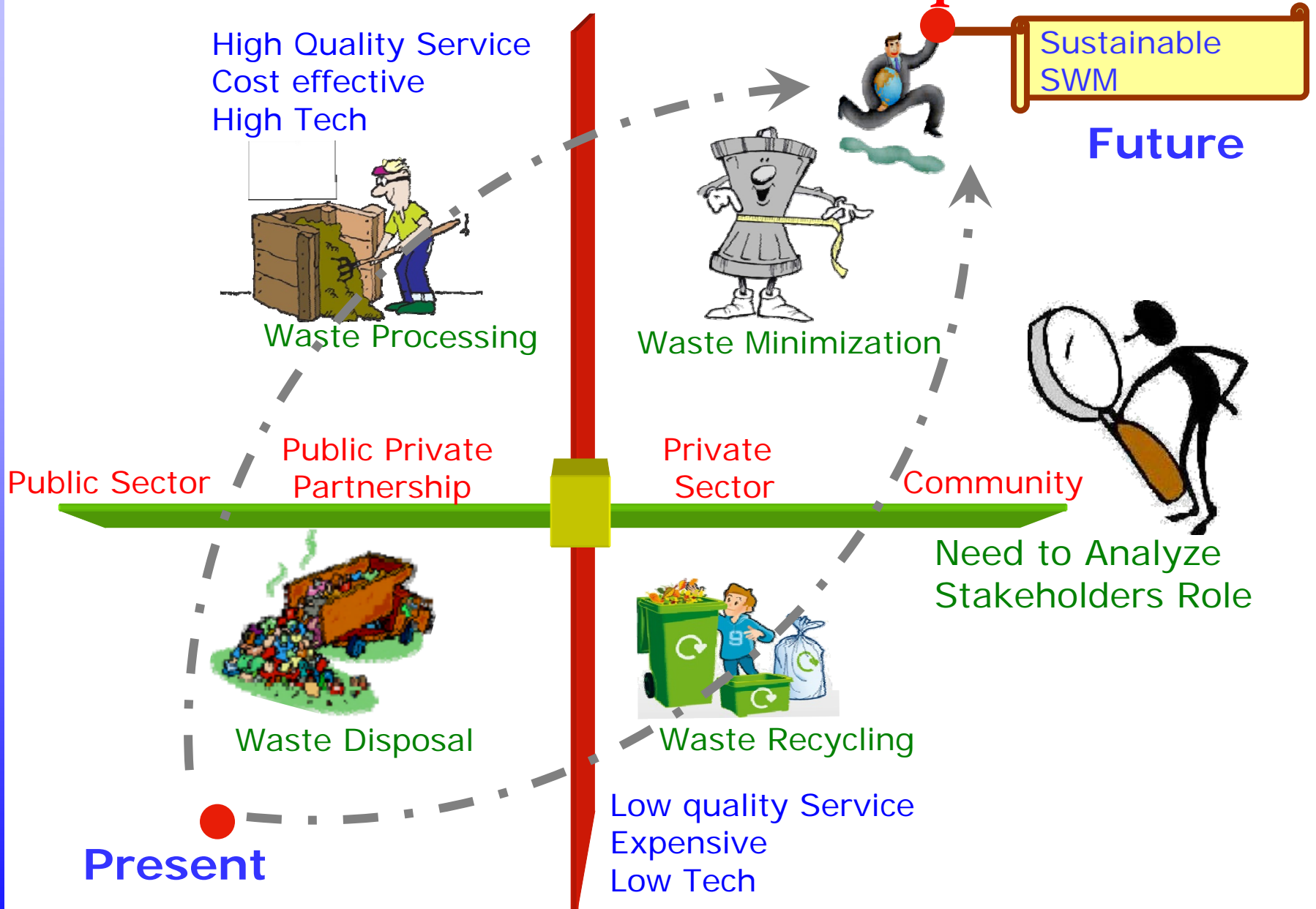
Source: <http://www.rolandberger.com/>

3R Business Opportunities



Source: Waste Management & Recycling-Green Economy Report

Calls for a Partnership...



PPP Recognized For?

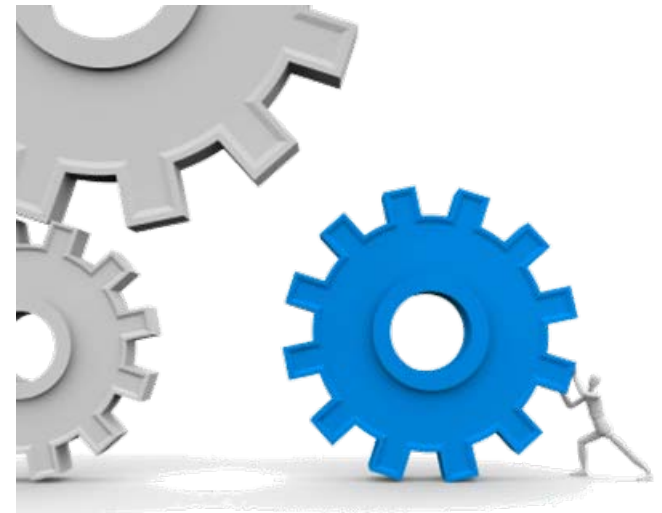
- **Improved performance of public sector:** by employing innovative operation & maintenance methods
- **Reduced & stabilized costs of services:** by ensuring work is performed by the most productive & cost effective means
- **Improved environmental protection:** by dedicating highly skilled personnel to ensure efficient operation & compliance with environmental requirements
- **Access to private capital for infrastructure investment:** by broadening & deepening supply of domestic & international capital

When Public Sector Fails...

What is Private Sector upto bring in ?

Through Public private partnership (PPP)

- Technical & Management Expertise in SWM
- Improve Operating Efficiencies in the system
- Large Scale Financial Capital Injection
 - Reduce the need for subsidies by the Government
 - Increase response to citizen's needs & preferences



MSW Scenario

Chennai

- Municipal Solid Waste (MSW) generation increased from 600 to 3500 tons per day within 20 years
- Per capita generation rate 0.6 kg/day



Question Raised on Public Sector Services

- Efficiency
- Quality of services
- Resources required for waste collection



- 4th largest metropolitan city in India
- Divided into 10 zones of 155 wards

MSWM in Chennai...Past

Organization Involved
in MSWM

Operating under framework of
MSW rules, 2000

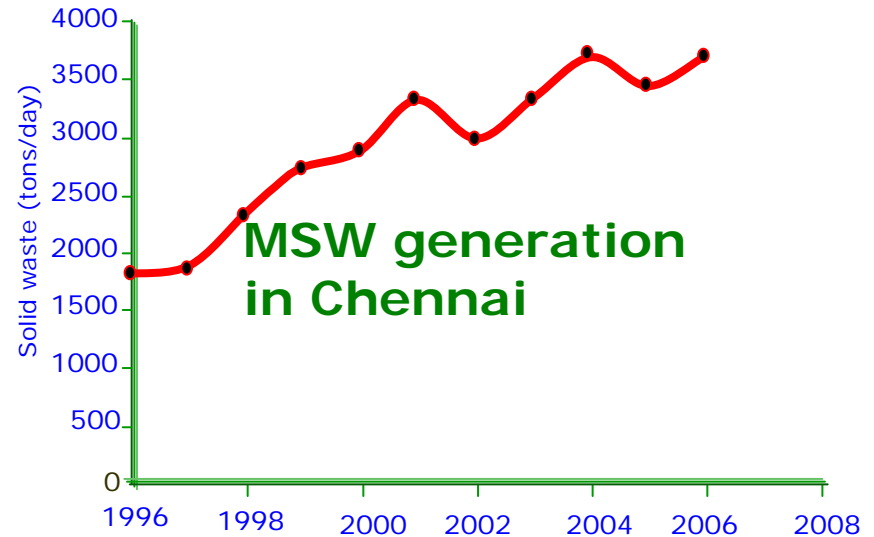


Public Sector
Corporation of
Chennai (CoC)

Public Sector
Local
Municipalities

Community
Some
NGOs/CBOs

City was divided into
10 zones



Source: www.chennaicorporation.com

MSWM in Chennai...Present

Organizations Involved
in MSWM

Operating under framework
of MSW rules, 2000



7 Zones

3 Zones- 6, 8 &10
30% total area of the City

2000 tons/day
Solid Waste

1100 tons/day
Solid Waste

Collected & treated

Open dumpsites at
Perungudi & Kodungaiyur

Chennai city – first in India
to establish PPP

Public Sector Services- Chennai



Awareness Campaign



Bin for Source Segregation

MSWM by CoC

10,000 employees 

7 Zones



Door-to-door waste collection



Waste Transportation

Private Sector Services

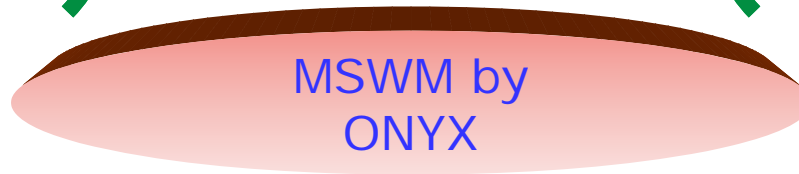


Manual Sweeping


Chennai is the first city in India to contract out MSWM services to a foreign private agency "ONYX" a Singapore based company



Mechanical Sweeper



Mechanized waste Collection vehicle

- ✓ Since March 2000, it is responsible for zones 6, 8 & 10
- ✓ 2,000 employees 



Transfer Station

Community Based Organizations

Civic Exnora

- Manages 18% of MSW generated in Chennai
- Creates 1500 jobs
- Rag pickers rehabilitation

Mahalakshmi Road Welfare Association

- Residents contributes funds to association
- Door to door waste collection
- Separate composting plant

Shanthi Nagar CBO

- Fills up gaps in conservancy services
- Income from recycling

Kumari Nagar CBO

- Run by housewives of the area
- Collects annual fee from its members



CBOs

- Job opportunity
- Generates income
- Voluntary contribution
- Service contribution
- Fills gap of public sector services

But PPP is not a Cakewalk

- Waste Management is considered as business of Central Government & Municipalities only
- No specific regard is given to the role of citizens, businesses & industries
- Role of formal, informal private sector, communities, waste generators & waste pickers are not recognized
- Lack of incentives & rewards for the supplemental contribution made for reducing burden of municipalities & central government
- Municipalities become prime beneficiaries from the efforts of private sector in terms of reducing burden & saved resources.

IPLA Facilitates the Partnership

Information
Technology
Finance



Where to
Invest



Local Authority



**Database of
Technology/
Service
Provider**

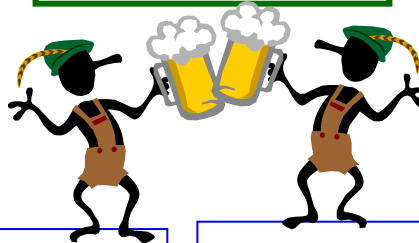
**Knowledge
Products
(Solid Waste
Management-
3R)**



Private Sector



IPLA



Capacity Building

- Training Workshops
- Pilot Projects

Funding Opportunities

- Call for Proposal/ EOI
- International Funding Mechanisms

IPLA Facilitates the Partnership

Through:

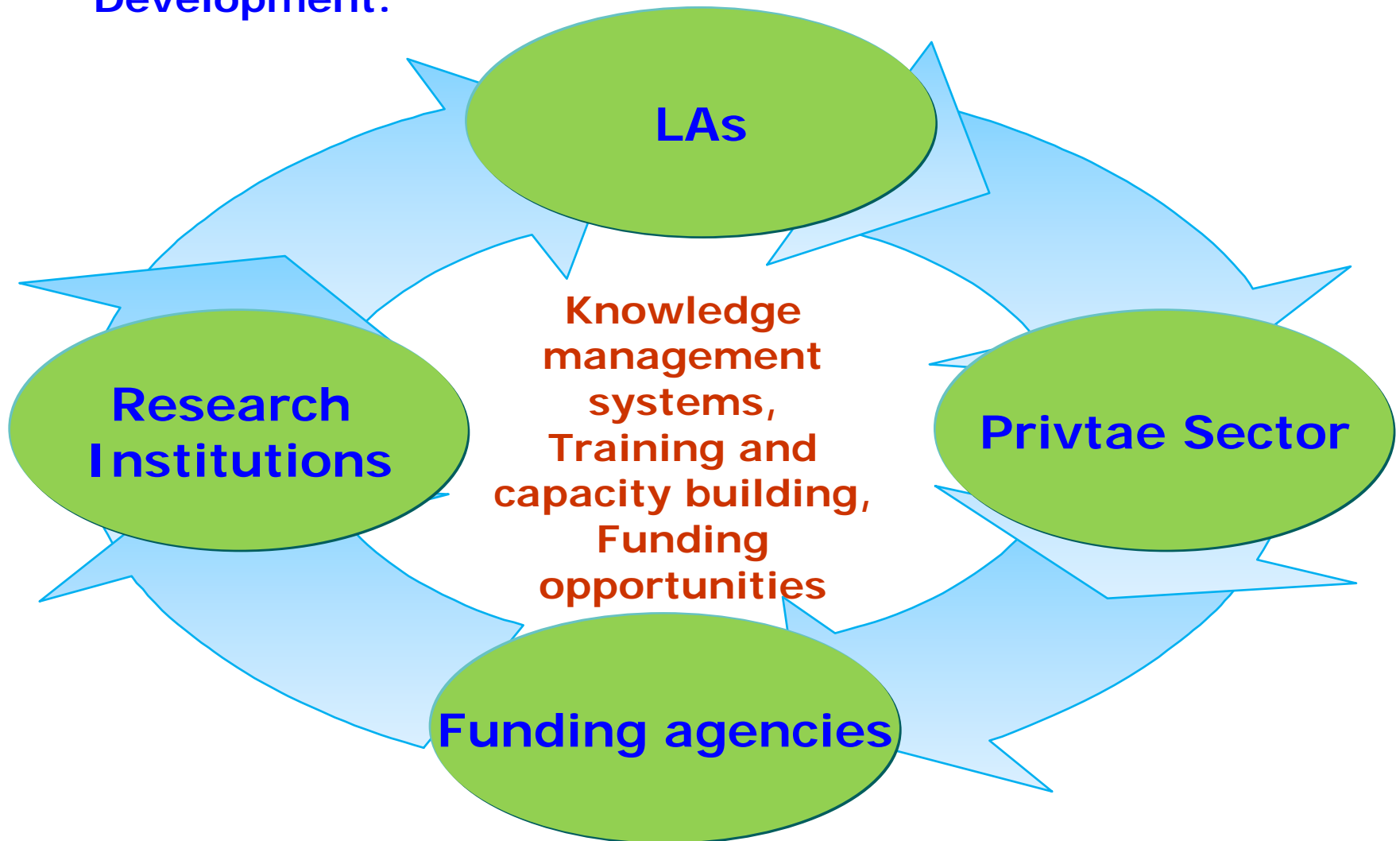
- **Linking** expert groups, financial institutions, potential investors, donor agencies, NGOs, private sectors and other partner LAs/members.
- **Knowledge Management** by sharing existing knowledge, generating new knowledge and facilitating the practical implementation of those knowledge/resources.
- **Partnership Building**
- **Awareness /Capacity Development**

IPLA Tools

- **Knowledge generation through Research:**
- The Global Secretariat to develop a well-equipped research strategy.
- For the initial year, research focus would be on:
 - Modality of privatization: business models for waste management, CSR, EPR
 - Formalization of informal sector in waste management: Issues related and the case examples
 - Waste management and climate/Carbon financing and measuring co-benefits of solid waste management

IPLA Tools

- Partnership Building, Awareness Raising/Capacity Development:

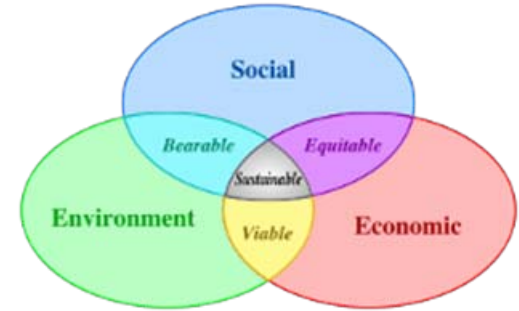


IPLA Aims for a Partnership which...

- Fill up gaps of public sector SWM service delivery
- Decrease the load on public sector



▪ PPP & CBOs
▪ Combination



Easily replicable low cost sustainable SWM solutions



- Financially viable for all the sectors including community receiving the service
- Increase job opportunities
- Economical Benefits from service

Value Addition of IPLA to Other Networks

- Focus on LAs
- Multi-stakeholder membership
- Interactive Web portal
- Non-hierarchical global network
- Contribution to zero waste goals
- Practice oriented knowledge network- as innovative projects
- Possible synergies with existing global and regional networks on waste management

Major Discussion Points

1. What are the major expectations in terms of functional components of IPLA?
2. How better IPLA should be pursued? As an entity (with a Advisory Group, Steering Committee, etc.) or a virtual network?
3. How IPLA should mainstream concepts of ZERO WASTE, 3Rs, and RESOURCE EFFICIENT CITIES local authorities?
4. How to mobilize resources for IPLA activities?

**Thank You For Your
Attention..!!**