





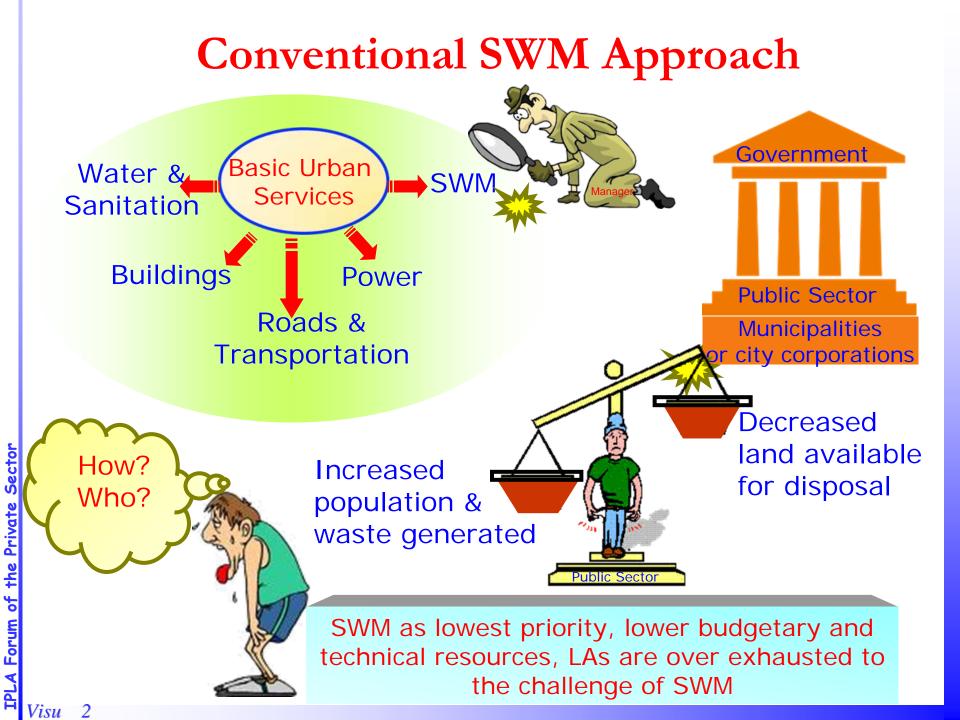
Joining Hands with Local Authorities-Public Private Partnership Through IPLA

"IPLA Forum of the Private Sector"

23 February 2012 Nagoya, Japan.



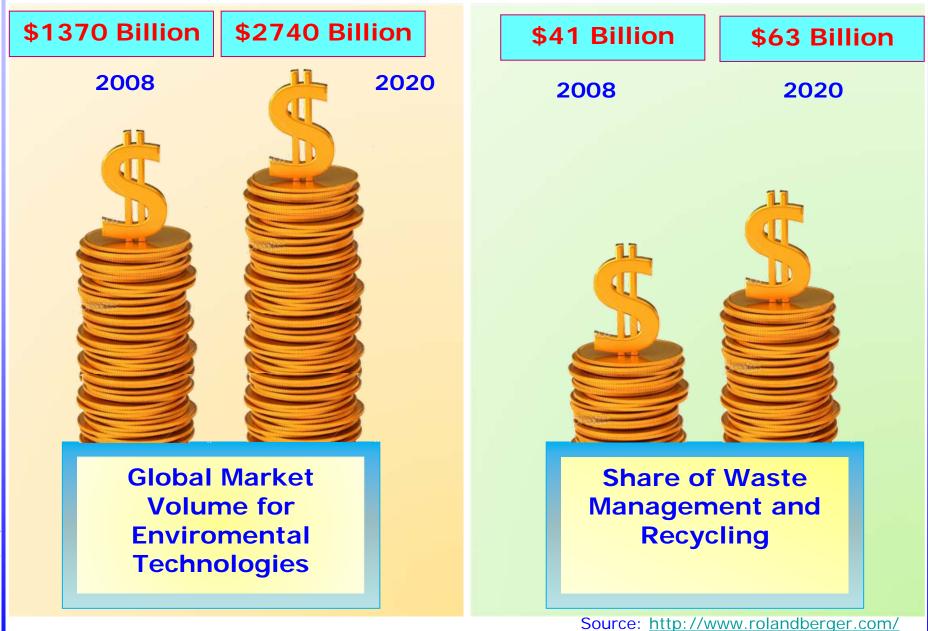
Prof. C. Visvanathan Environmental Engineering and Management Program Asian Institute of Technology Thailand email: visu@ait.ac.th Web: <u>http://www.faculty.ait.ac.th/visu/</u>



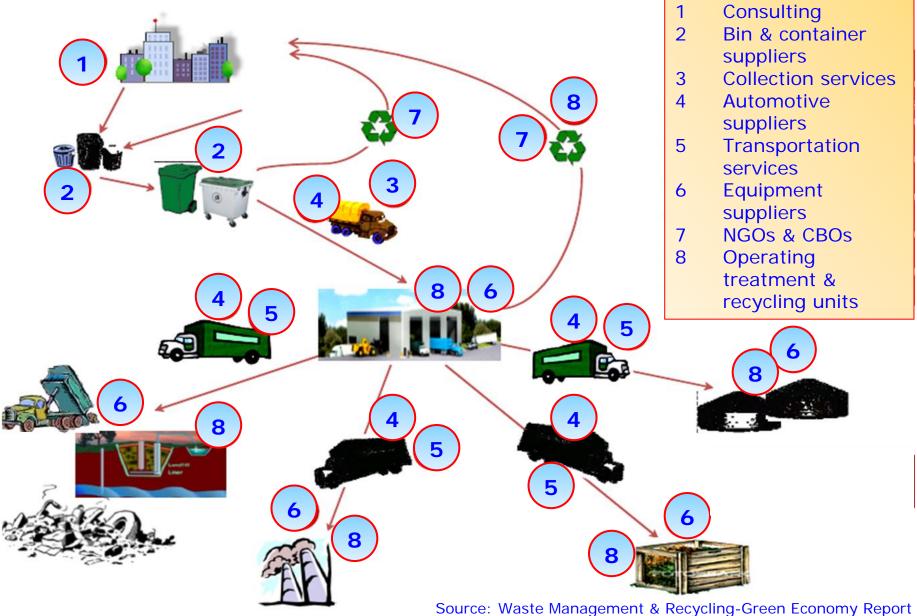
Development Drivers of SW Modernization



Waste Economy...



Business Opportunities in SWM



Challenges of LAs for SWM

Reasons

- Lack of Management system
- Lack of appropriate Equipments
- Lack of incentives for sanitary workers
- Lack of control on waste Transportation
- Lack of Capacity of municipalities-finance, resource and technology

Future?



Weakness

- Influence of labour unions over whole organization
- Low productivity of staff
 - Inadequate supervision
 - Unsatisfactory equipment
- Politicians influence on management

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Shifting the Roles of LAs

Municipalities from being a 'service provider' to 'facilitator of service', by focusing its activity on planning and management,

While a private company takes up the day to day operation.

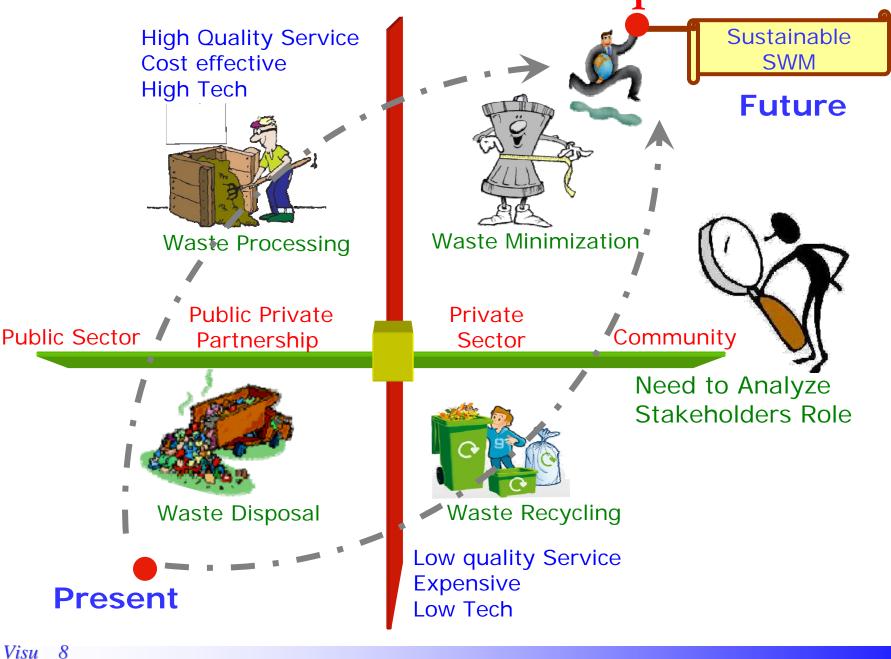
What is Private Sector up to bring in ?

Through Public private partnership (PPP)

- Technical & Management Expertise in SWM
- Improve Operating Efficiencies in the system
- Large Scale Financial Capital Injection



Calls for a Partnership...



LAs on the Look out for the Partnership with Private Sector

Some of the Indian Municipalities adopting PPP basis of Integrated solid waste Management

- Asansol Durgapur
 West Bengal Coimbatore City Municipal Corporation
 Curvebati Municipal Corporation
- Guwahati Municipal Corporation
- Hyderabad Municipal Corporation
- Mudurai Municipal Corporation





CONSTRUCTION & DESIGN SERVICES

UTTAR PRADESH JAL NIGAM, 2, Lal Bahadur Shastri Marg, Lucknow, Tel: 91-0522-2237768, 2237801, 2235573 Fax: 0522-2239088, Email: director@cdsupjn.org. Visit us at: www.cdsupjn.org

No. 218/G-02-07/132

Date : 19th June 2009

Expression of Interest C &DS, U.P. JAL NIGAM has been given responsibility for award and execution of MSW projects on BOT (PPP) basis

These projects are grouped into following three packages which is integral part and referred as one package.

 Collection & Transport 2-Processing and Treatment of Solid waste 3-Operation & Maintenance of Processing plant and SLF

These projects will be set up under various ULB's of Uttar Pradesh as follows:-

SI. No.	Place	T.P.D.	Estt. cost in Lacs	SI. No.	Place	T.P.D.	Estt. cost in Lacs
1.	Ballia	40	373.70	3.	Sambhal (Moradabad)	75	521.69
2.	Badaun	55	488.60	4.	Basti	40	390.98

The above mentioned Local Bodies are collecting, transporting and disposing off MSW at various spots. These Local Bodies are actively considering the proposals for Scientific Processing and Development of Sanitary Land Fill at an appropriate site. In order to reduce burden on the SLF and in accordance with MSW Rules 2000, it is proposed to set up an Integrated MSW Processing facility with Private-Public- Partnership under UIDSSMT programme on BOT basis. Details Terms, Conditions & eligibility criteria is available on our website *www.cdsupjn.org* **Director**

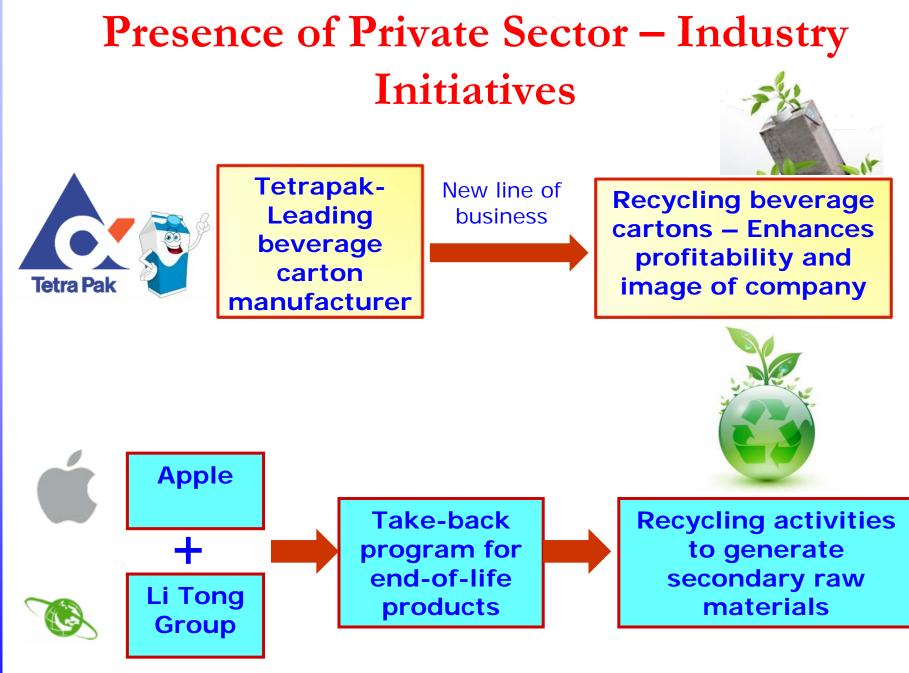
Private Sector on the Look out for Partnership with LAs

 Unilever's Sustainable Living Plan launched in 2010, " working in partnership with industry, governments and NGOs to increase recycling and recovery rates on average by 5% by 2015, and by 15% by 2020 in our top 14 countries."



 In August 2011, under the same plan Unilever looked for partnership arrangement with a local authority by offering financial support for mixed plastics recycling collections (pots, tubs and trays)

Source: edie.net/news/news_story.asp?id=20553



IPLA Forum of the Private Sector

Presence of Private Sector – Industry Initiatives



Fluorescent Tube Recycling Philips Electronics (Thailand) Ltd. Address: 515 Moo.4 8D, Pattana 3 Road, Bangpoo Industrial Estate, Preakasa, Maung, Samutprakarn, 10280, Thailand Technology Provider: Royal Philips Electronics, The

In 2006, the Pollution Control Department (PCD) of Thailand initiated a partnership project with Philips and Toshiba to collect and recycle fluorescent lamp wastes from various establishments. It initiated a household hazardous waste management scheme with large municipalities

Presence of Private Sector –Business Opportunities

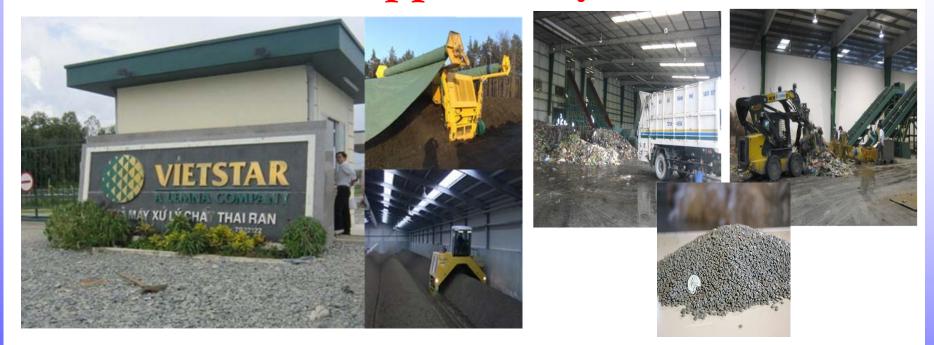
• Veolia Environmental services is present

VEOLIA ENVIRONMENTAL SERVICES globally in 31 countries, and in developed Asian countries- China, Singapore, South Korea, Taiwan offering its municipal waste management services.

 Household waste collection in the district of Wong Tai Sin, Hong Kong. Since May 1, 2006, total turnover of €4 million Euros over the 5 year period.

2) Operations and maintenance contract (O&M*) for a Waste-to-Energy plant for non-hazardous waste in Ilan County, Taiwan. Since January 2006, a cumulative turnover estimated at €44 million Euros over a 20 year period.

Presence of Private Sector –Business Opportunity



Windrow Composting Vietstar Joint Stock Company Address: Municipal Solid Waste Treatment Complex, Cu Chi District, Ho Chi Minh City, Vietnam Technology Provider: Lemna International, Inc., U.S.A.

National policies of Vietnam is favorable for FDI. It also has a strong policy on promotion of 3R and is set to achieve a recycling rate of 70% from the total municipal solid wastes by the year 2015.

Presence of Private Sector –Business Opportunity



Non-infectious waste incinerator facility (WMS-DOWA) in Bangpoo Industrial Estate, Thailand

Funded by NEDO Japan to the Industrial Estate Authority of Thailand via Green Partnership Plan (GPP)

•Waste Management Siam (WMS) owned by DOWA Eco Systems Co. Ltd., Japan took up the operation of this incineration plant for 20 years from 2009.

PPP in Philippines



Methane gas recovery project with Italian company in Payatas landfill in Quezon City, Metro Manila

Example of PPP- MSW in Chennai, India

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



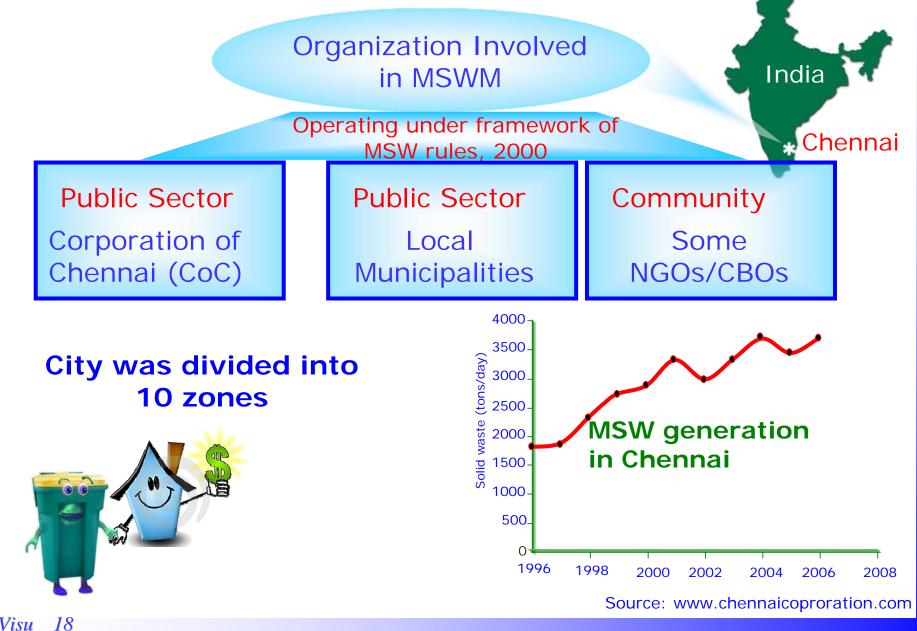
Question Raised on Public Sector Services

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

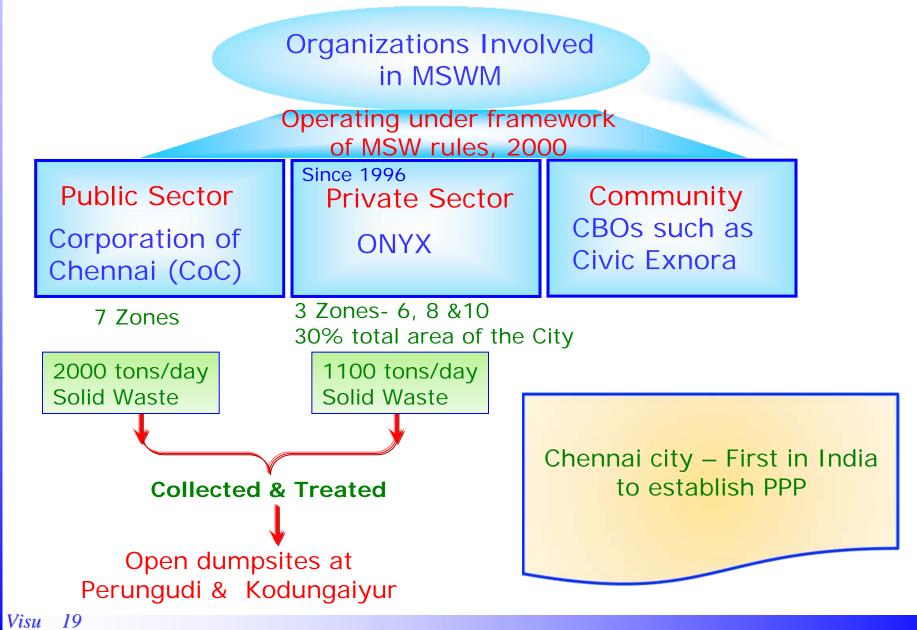


- 4th largest metropolitan city in India
- Divided into 10 zones of 155 wards





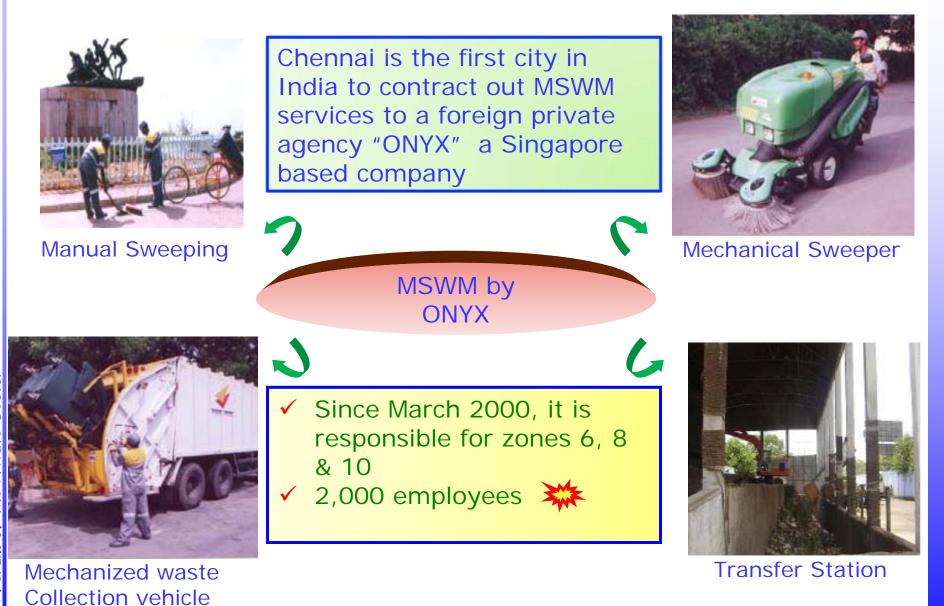
MSWM in Chennai...Present



Public Sector Services- Chennai



Private Sector Services



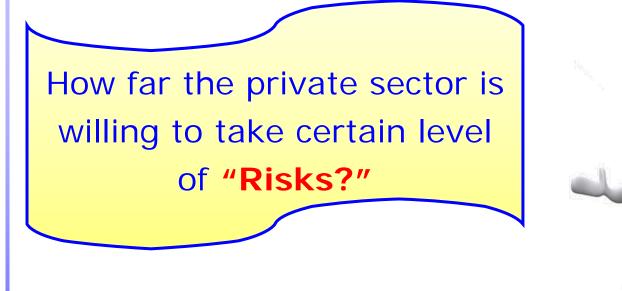
PPP Recognized For?

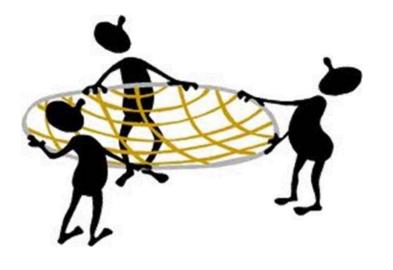
- Improved performance of public sector: by employing innovative operation & maintenance methods
- Reduced & stabilized costs of services: by ensuring work is performed by the most productive & cost effective means
- Improved environmental protection: by dedicating highly skilled personnel to ensure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

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

But PPP is not a Cakewalk...



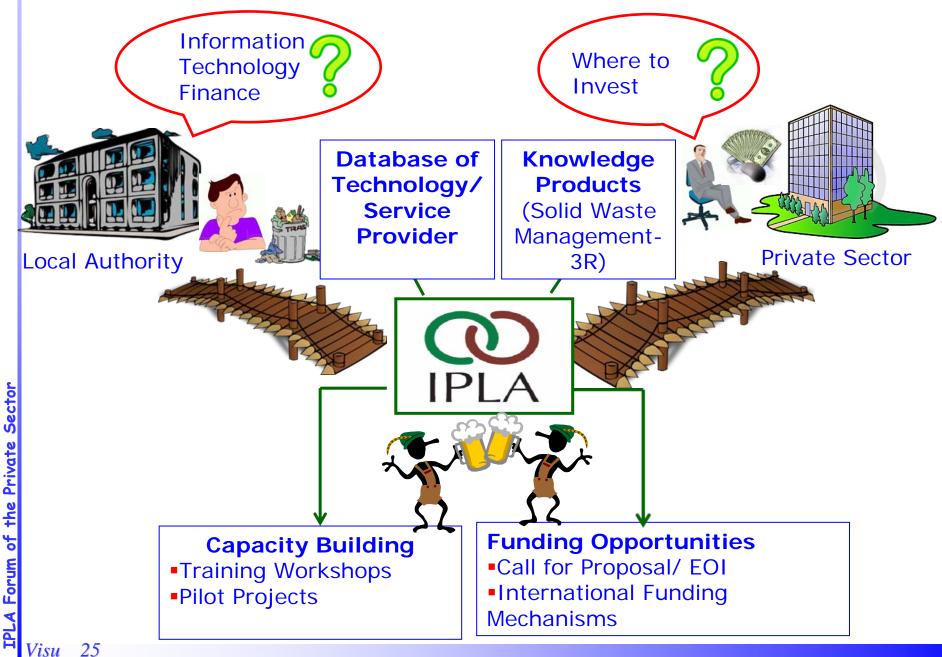


What are the "Safety Net" required by businesses & industries ?

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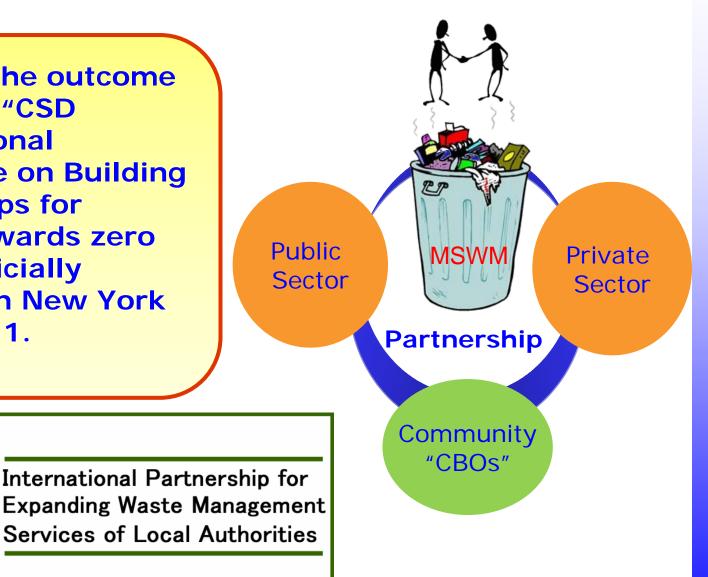
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IPLA Facilitates the Partnership...



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.



IPLA Forum of the Private Sector

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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





List of Private Sector IPLA Members

South America

- Gestion Organica GEO SAS (Colombia)
- Ibicol Ltda (Colombia)
- Plastichem Ltd (Colombia)
- Asomuña (Colombia)
- Utilities SAS (Colombia)
- Gestion Organica GEO SAS (Colombia)
- Ibicol Ltda (Colombia)
- Ciudad Limpia Bogota (Colombia)
- Camara de Integracion Economica Venezolano-Colombiana (CAVECOL) (Venezuela)
- Environmental Management Centre (EMC)

Asia

- Infrastructure Leasing & Financial Services Limited (IL&FS) (India)
- Blocon, Inc. (Republic of Korea)
- Bionersis (Thailand)
- Al Boucai Group (Jordan)

List of Private Sector IPLA Members cont.

Africa

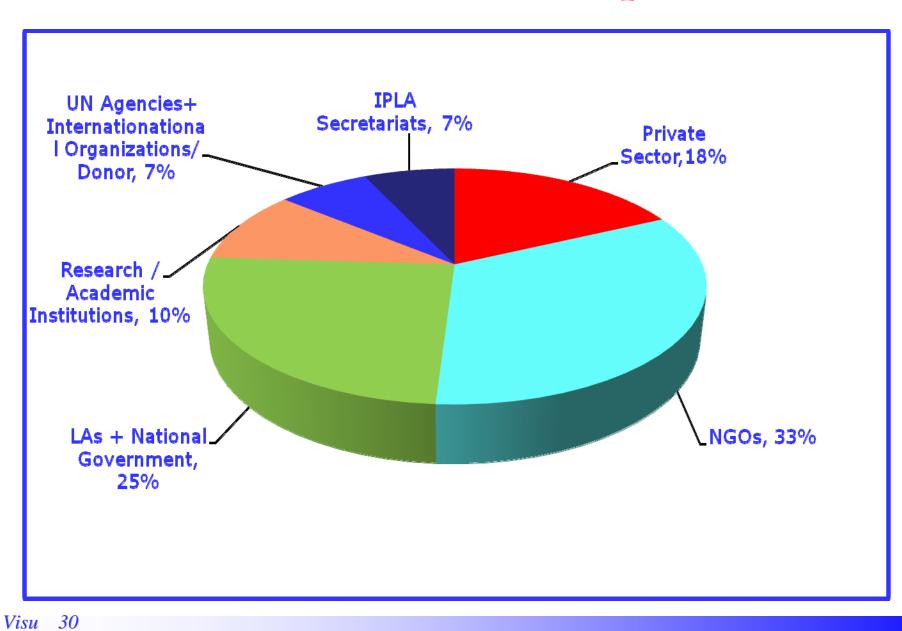
- Environ-Waste Nigeria Limited (Nigeria)
- Richbol Environmental Services (Nigeria)
- Green Page Integrated Services Ltd. (Nigeria)
- Zoomlion Ghana Limited (Ghana)
- Malians Waste Management (Mali)
- Malians Waste Management (Mali)

Europe

- 3R Environmental Technology Group (Hungary)
- Tega SA (Romania)



IPLA Membership



Thank You

