

Construction By-products Resource Information System (COBRIS)

I Recycling construction by-products

- *Purpose*
- *Quantity of discharged industrial solid waste*
- *Laws and guidelines to promote recycling*
- *Progress of recycling construction by-products*

II Details of COBRIS

- *System concept*
- *Information contents*
- *Service charge*
- *Users*

I Recycling construction by-products

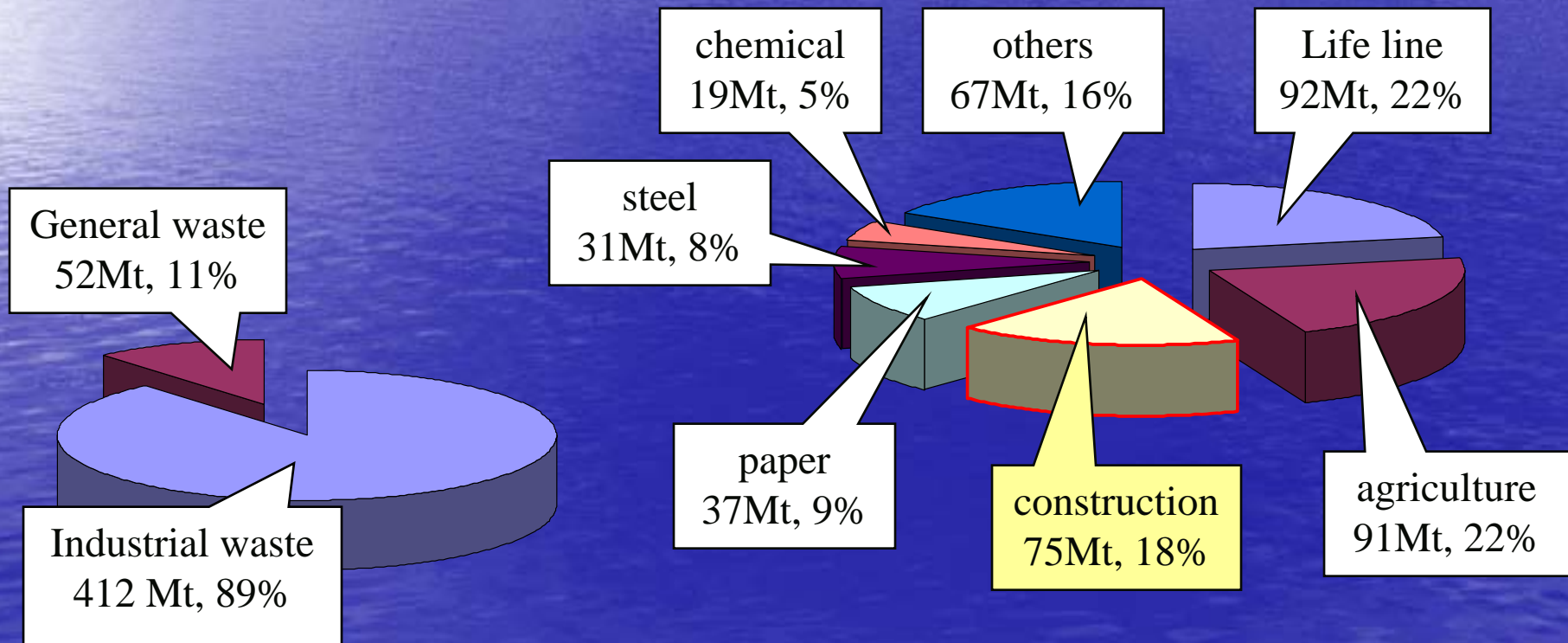
● *Purpose*

- Construction work requires plenty of materials as concrete, soil/sand, woods, metal, etc..
- The same materials can be used as resources in a case, while as waste in another.
- In order to reduce waste and to reuse as resources, exchange of materials between construction projects shall be encouraged.
- Thus contribute to avoid environmental problem by saving materials and reduce waste.
- COBRIS provides place to exchange information on generation and requirement of construction materials.

I Recycling construction by-products

● Quantity of Discharged Industrial Solid Waste

- Out of 464 million tons of whole waste, industrial waste shares 89%
- Out of 412 million tons of industrial waste, construction waste shares 18%



(Ministry of Environment 2003)

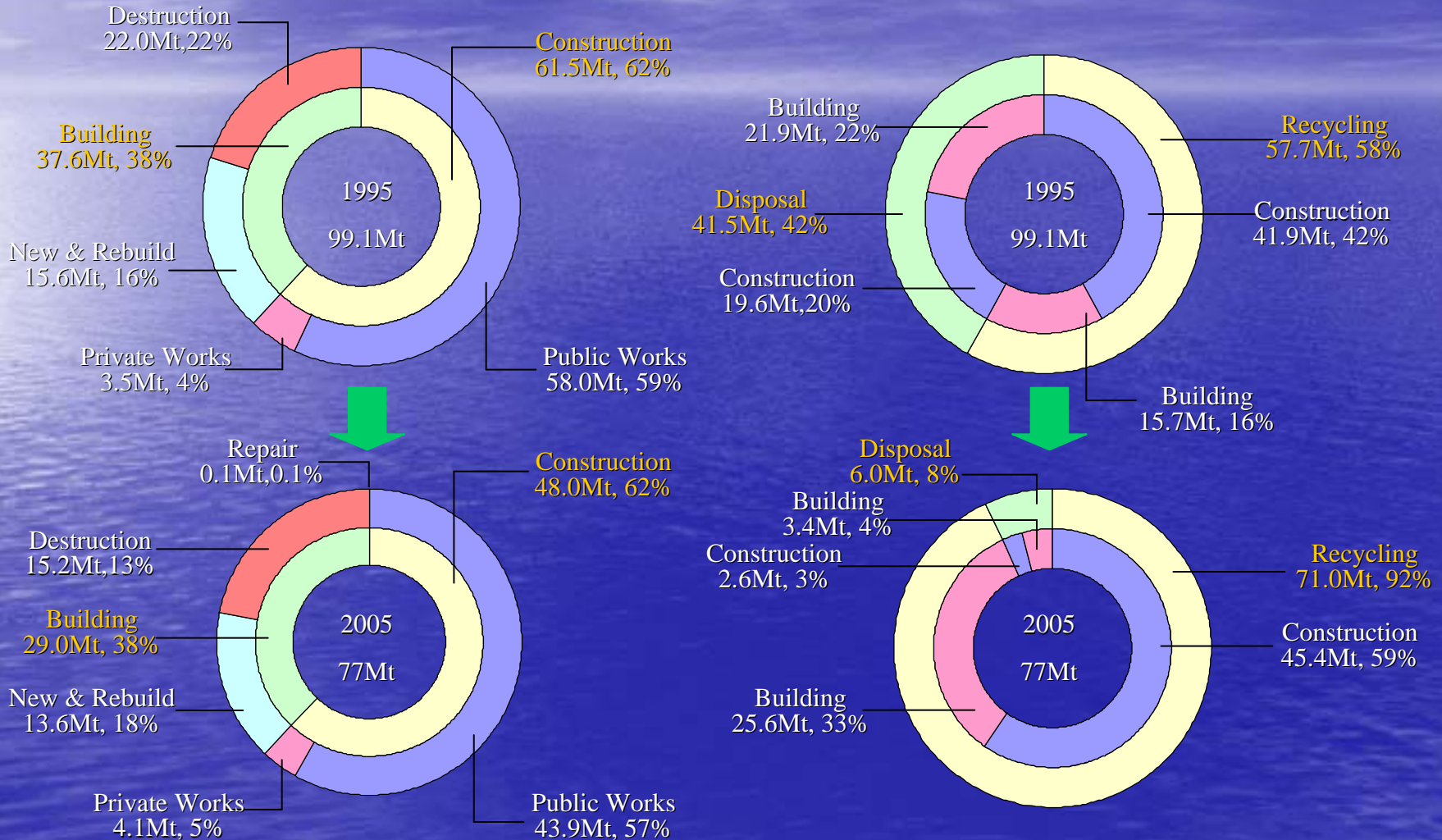
I Recycling construction by-products

● *Laws and guidelines to promote recycling*

- Basic Law to establish Recycle-based Society (2000)
- Construction Material Recycling Act (2000)
- Rule for Construction Material Recycling (2002)
- Basic Plan to establish Recycle-based Society (2003)

I Recycling construction by-products

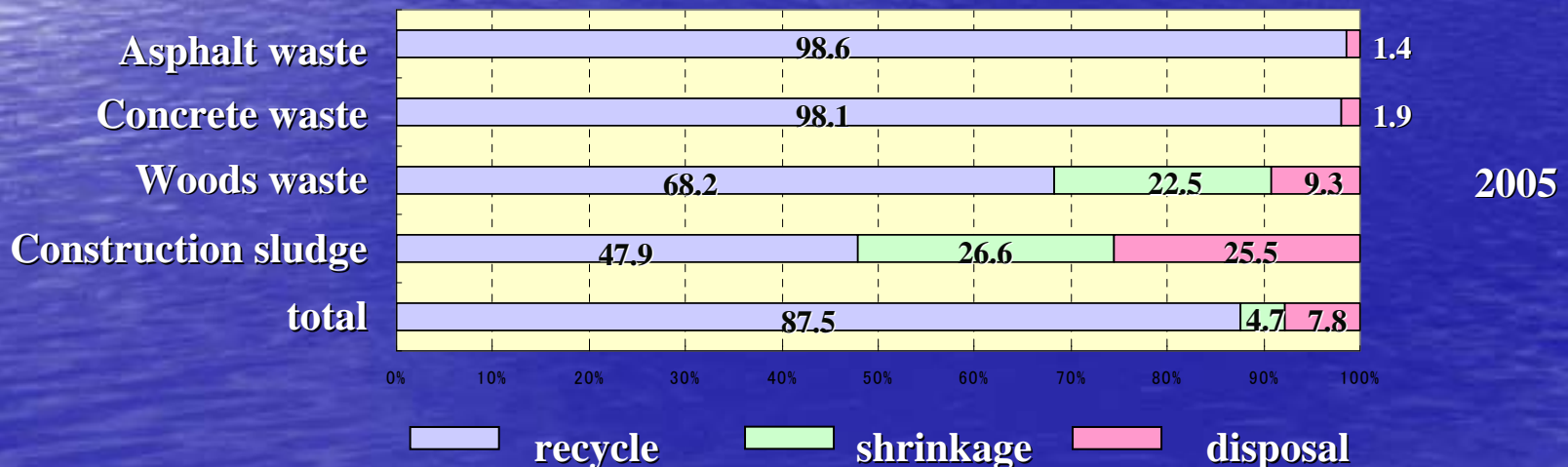
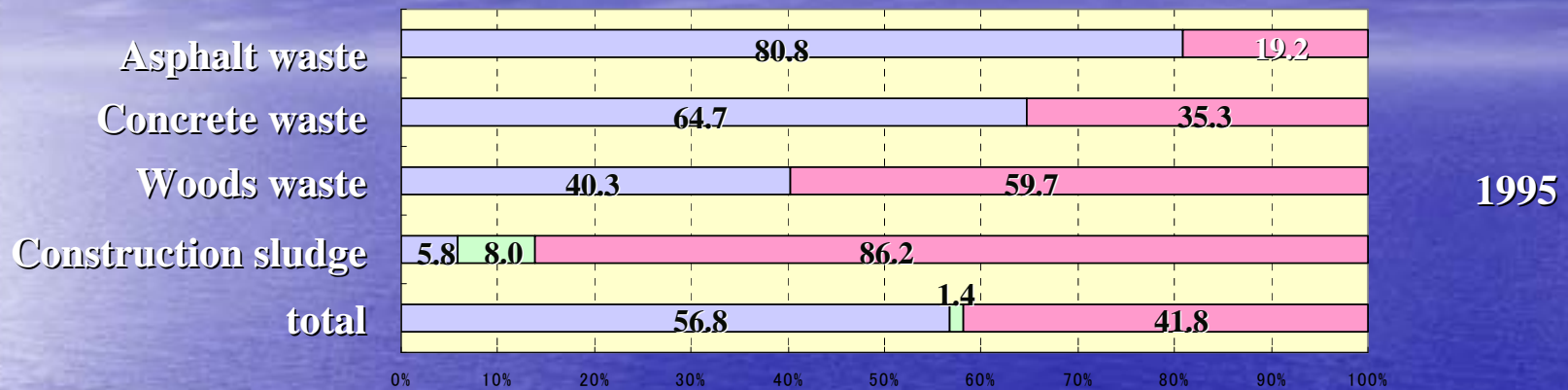
● Progress of recycling construction by-products



(Ministry of Land, Infrastructure and Transport 2006)

I Recycling construction by-products

● Progress of recycling construction by-products

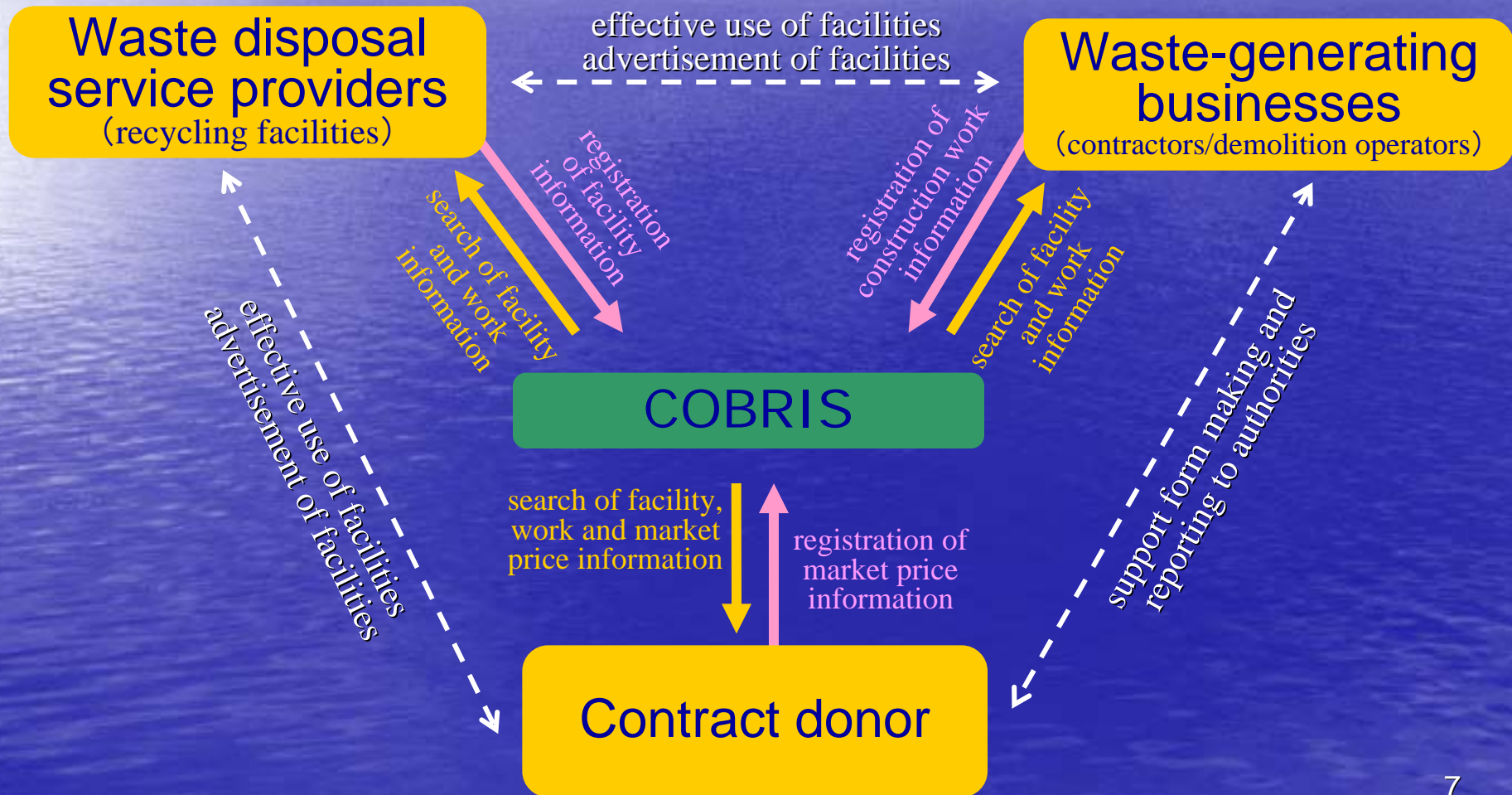


(Ministry of Land, Infrastructure and Transport 2006)

II Details of COBRIS

Construction By-products Resource Information System

● *System concept*



II Details of COBRIS

Construction By-products Resource Information System

● *Information contents*

● *Construction work information*

- Quantity of material input and recycled
- Quantity of waste generated and to be took out

● *Recycling facility information*

- Address of facility
- Receivable item
- Price

● *Market price information* (provided to contract donor only)

- Surveyed market price data for cost estimation

II Details of COBRIS

Construction By-products Resource Information System

● *Service charge*

	User	Contract unit	Annual Service charge
On-line system	National government Public corporation	Per head office Per office	¥157,500
	Prefecture/Mega city		¥31,500
	City, town, village/ special ward	Per municipality	¥8,400
	Waste generating body	Per branch office	¥8,400
	Waste disposal service provider	—	Free
Agent system	Waste generating body	Per branch office	¥15,750
	Waste disposal service provider	—	Free

II Details of COBRIS

Construction By-products Resource Information System

● *Users*

As of May 2007

	No. of users
National Government organization	309
Public corporation	9
Local Government	282
Private Utility corporation	6
Waste generating body (construction company)	15,464
Waste disposal service provider (recycling facility)	1,932
Total	18,002