



The environmentally sound management (ESM) of waste from ship recycling in Pakistan

Ship Recycling Seminar: Towards Sustainable Ship Recycling
3rd February 2016, London, United Kingdom

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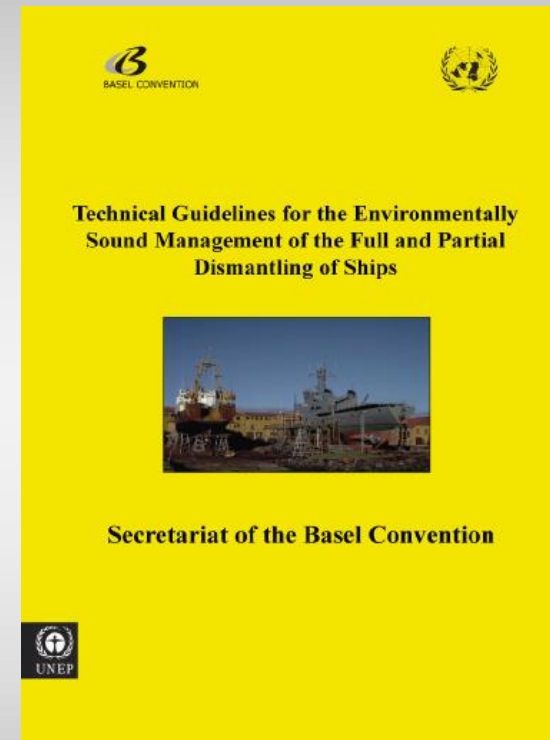
CONTENT OF PRESENTATION

1. BRS involvement in ship recycling
2. Hazardous waste management and the Basel / Hong Kong Conventions
3. Environmentally sound management of waste from ship recycling in Pakistan



BRS INVOLVEMENT IN SHIP RECYCLING

- Basel Convention involved in ship recycling since late 90s
- Technical Guidelines on ship dismantling adopted by Basel Parties in 2002 / other guidelines on management of certain waste streams and treatment & disposal methods
- Basel involvement in negotiations on Hong Kong International Convention for Safe and Environmentally Sound Recycling of Ships (2009)
- Basel issues of concern: transboundary movements and hazardous waste management



HAZARDOUS WASTE MANAGEMENT AND THE BASEL CONVENTION

Under the Basel Convention, Parties have certain obligations -

Article 4 on Environmentally Sound Management:

- Minimise generation of hazardous wastes
- **Ensure availability of adequate waste disposal facilities**
- Prevention of pollution and minimisation of consequences for human health and environment
- Authorisation for those transporting or disposing of hazardous waste



HAZARDOUS WASTE MANAGEMENT AND THE HONG KONG CONVENTION

Under the Hong Kong Convention, Parties will have certain obligations (Regulation 20):

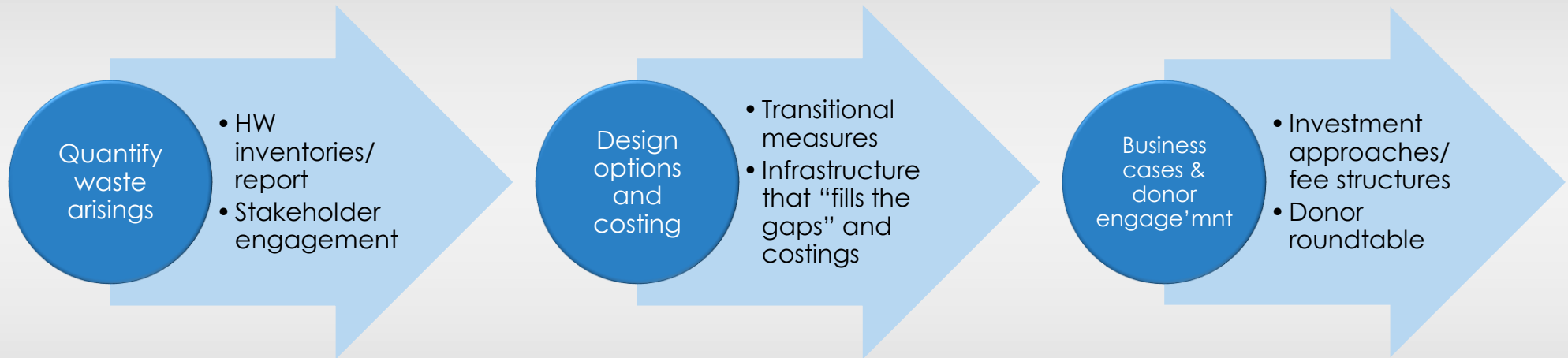
- Hazardous materials are removed from a ship in a safe and environmentally sound manner
- All hazardous materials detailed in the ship's inventory of hazardous materials are identified, labeled, and packaged at the yard in a safe and environmentally sound manner
- **Waste management and disposal sites are identified to provide for the further safe and environmentally sound management of materials**

ESM OF WASTE FROM SHIP RECYCLING AND OTHER LOCALISED INDUSTRIES

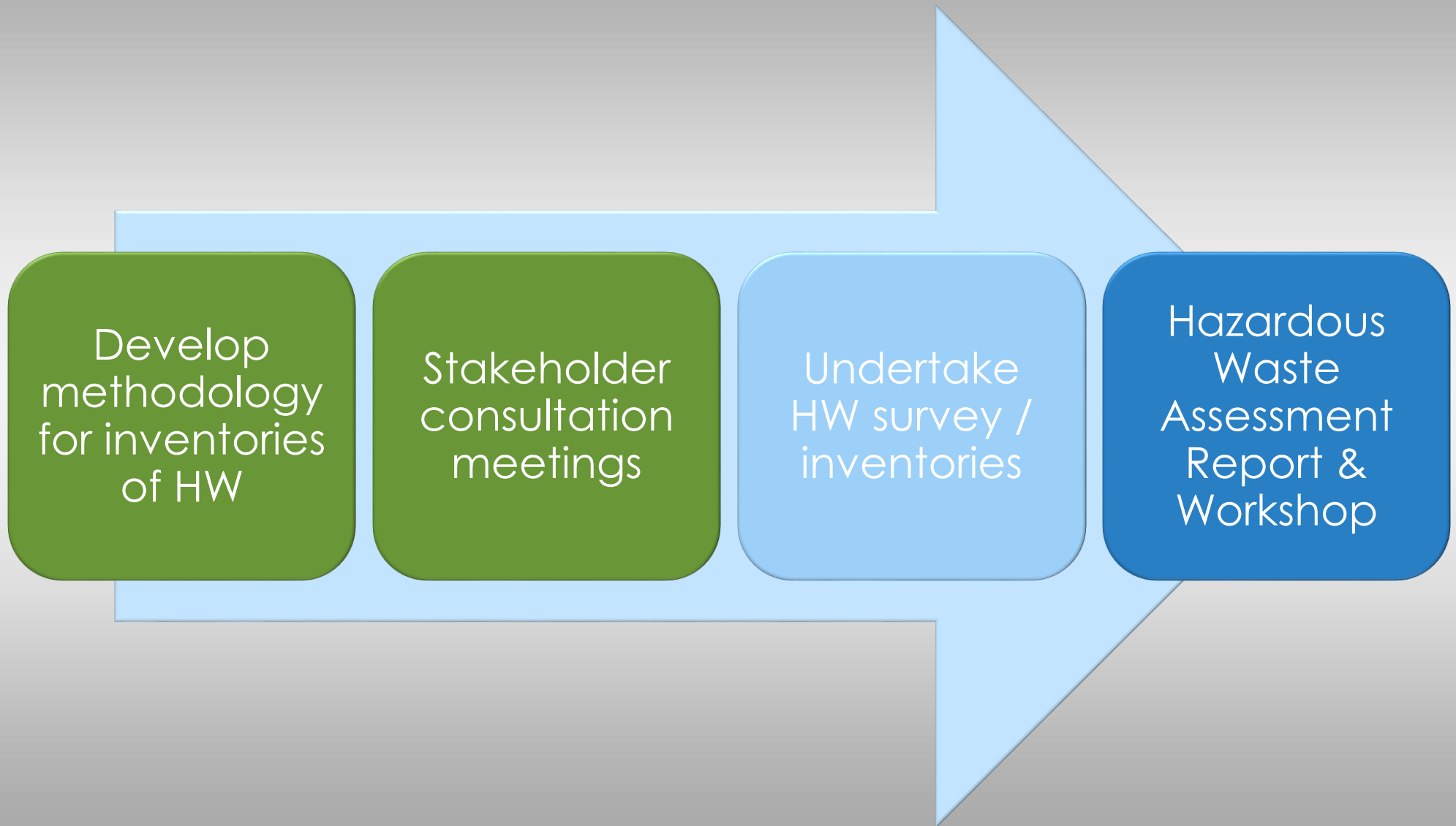
- Funding from European Union for two projects on the ESM of waste from ship recycling and other industries
- Project 1: Safe and Environmentally Sound Ship Recycling in Bangladesh (SENSREC) - Work package 2 on planning the management of hazardous materials
- Project 2: ESM of waste from ship recycling and other industries in Pakistan



OBJECTIVE OF THE PROJECTS ON ESM OF WASTE FROM SHIP RECYCLING AND OTHER LOCALISED INDUSTRIES



I. QUANTIFY WASTE ARISING



II. DESIGN OPTIONS AND COSTING

Transitional
measures: e.g.
collection,
centralised
storage

Design options
e.g. treatment,
energy recovery,
landfill,
incineration

Options incl. site
selection
considerations,
layout/plans,
operational
reqs., supportive
infrastructure

Costings for
infrastructure
development
and operation

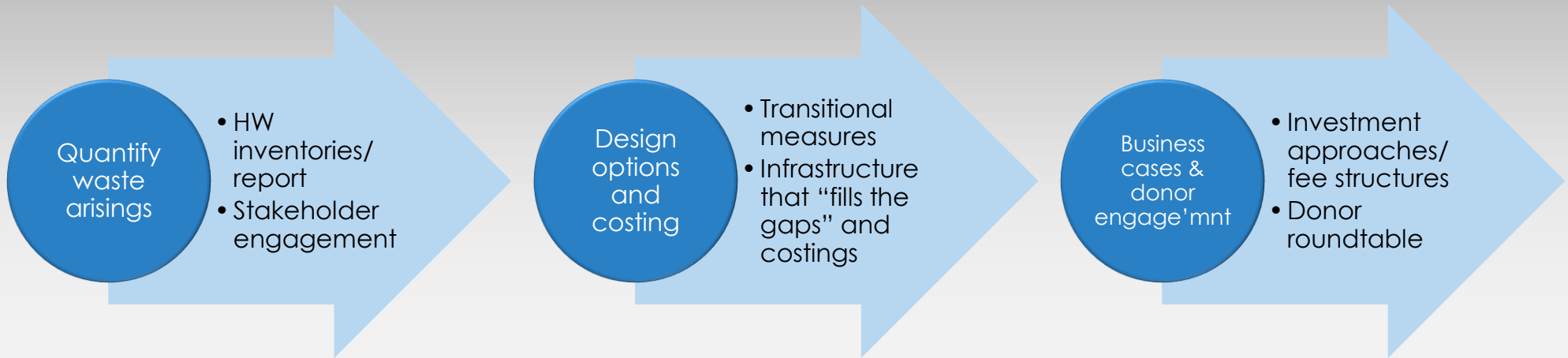
III. BUSINESS CASES / DONOR ENGAGEMENT

Cost benefit analysis
of different design
options

Develop investment
approaches – i.e.
for initial capital and
operational costs

Donor engagement
– Roundtables,
bilateral
engagement

TIMELINES

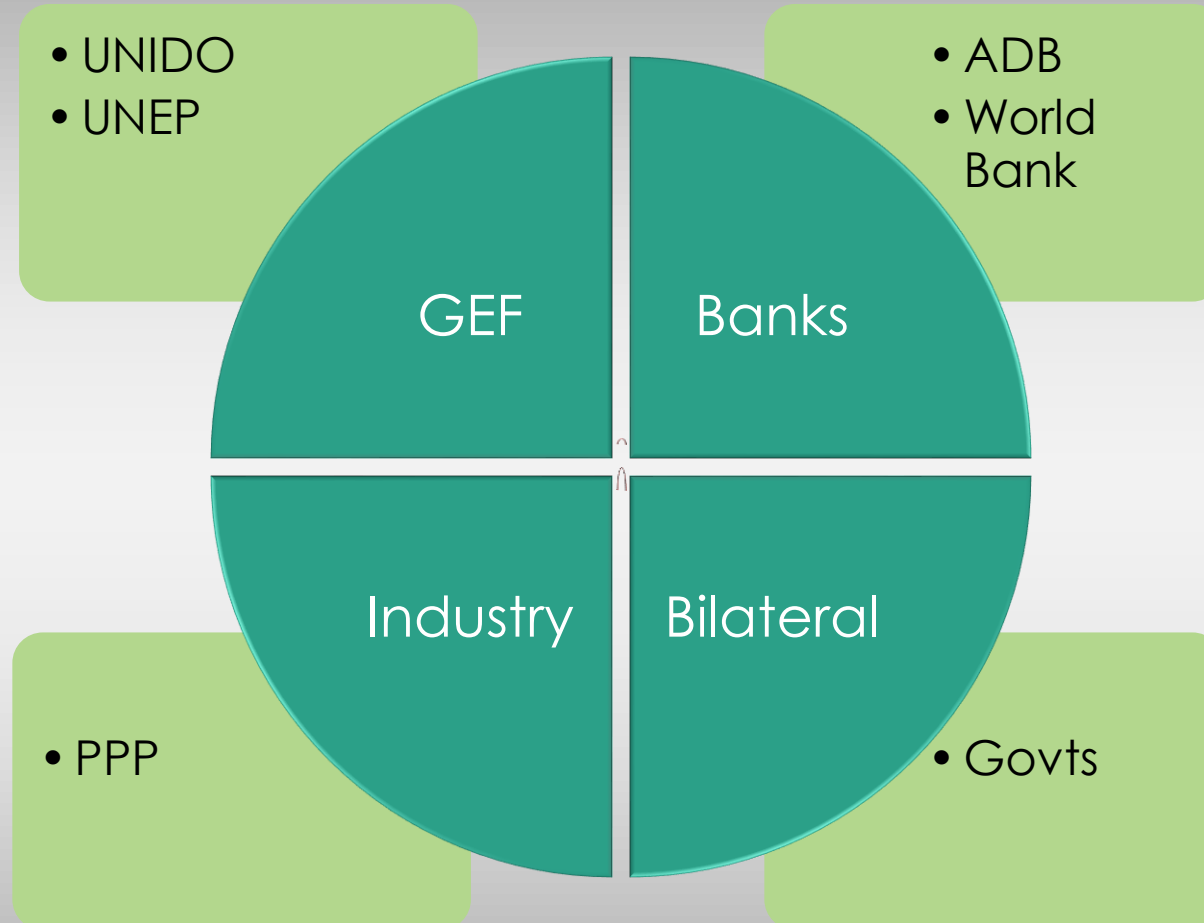


Present -
May

March -
July

April -
August

POTENTIAL DONORS / INVESTMENT PARTNERS



PROJECT TEAM

Governments of Bangladesh / Pakistan; BRS; IMO (in Bangladesh)

International consultancy company: Sofies SA

Senior and Junior consultant
Bangladesh

Senior and Junior consultant
Pakistan

Technical consultant: design options and costing

NOW
HIRING!



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**For further information, please visit the Basel
Convention website: www.basel.int**