

Satellites for Waste Management “UK Waste Management Activities”

Steve Lee, CEO Chartered Institution of
Wastes Management, CEO Resources &
Waste UK



The Chartered Institution
of Wastes Management

inspired by "cradle to cradle" in terrestrial industry,raw materials reused for another product, or consumed as food, with no waste residue or loss in quality.

planetary probes or satellites might become sources of fuel, water or other raw materials for missions that come after them.

ESA's " Sustainable Materials Concept "

http://economictimes.indiatimes.com/articleshow/26351312.cms?utm_source=contentofinterest&utm_medium=txt&utm_campaign=cppst



..a near closed system for all resources



Another near closed system for resources

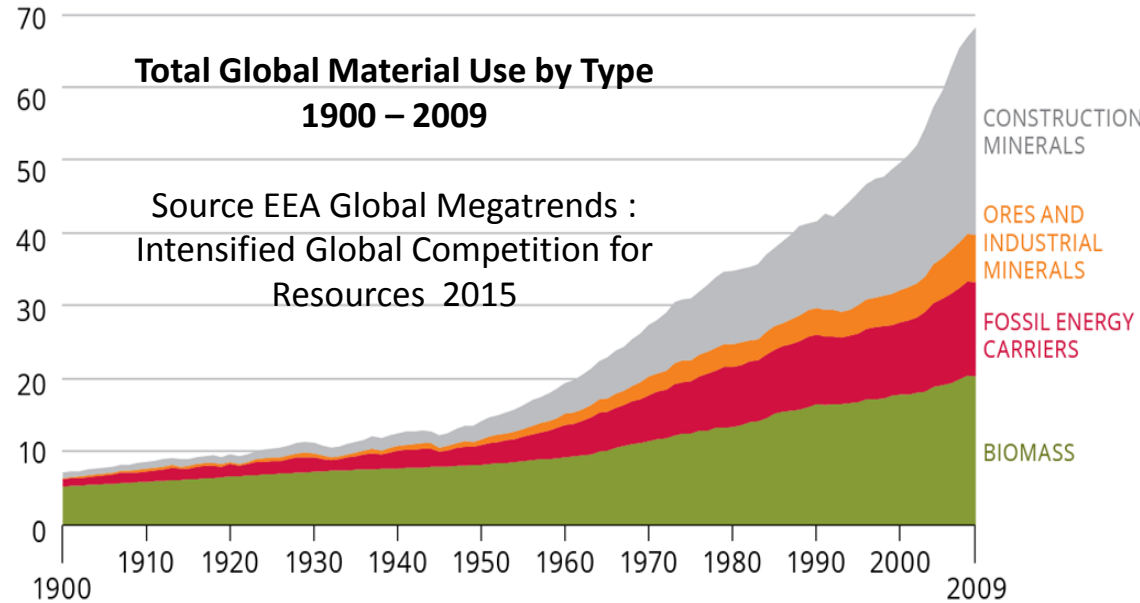


CIWM Vision

“A world where:

- Resources are kept working
- Wastes are managed and put back to work
- Residues are carefully disposed of”.

Billion tonnes

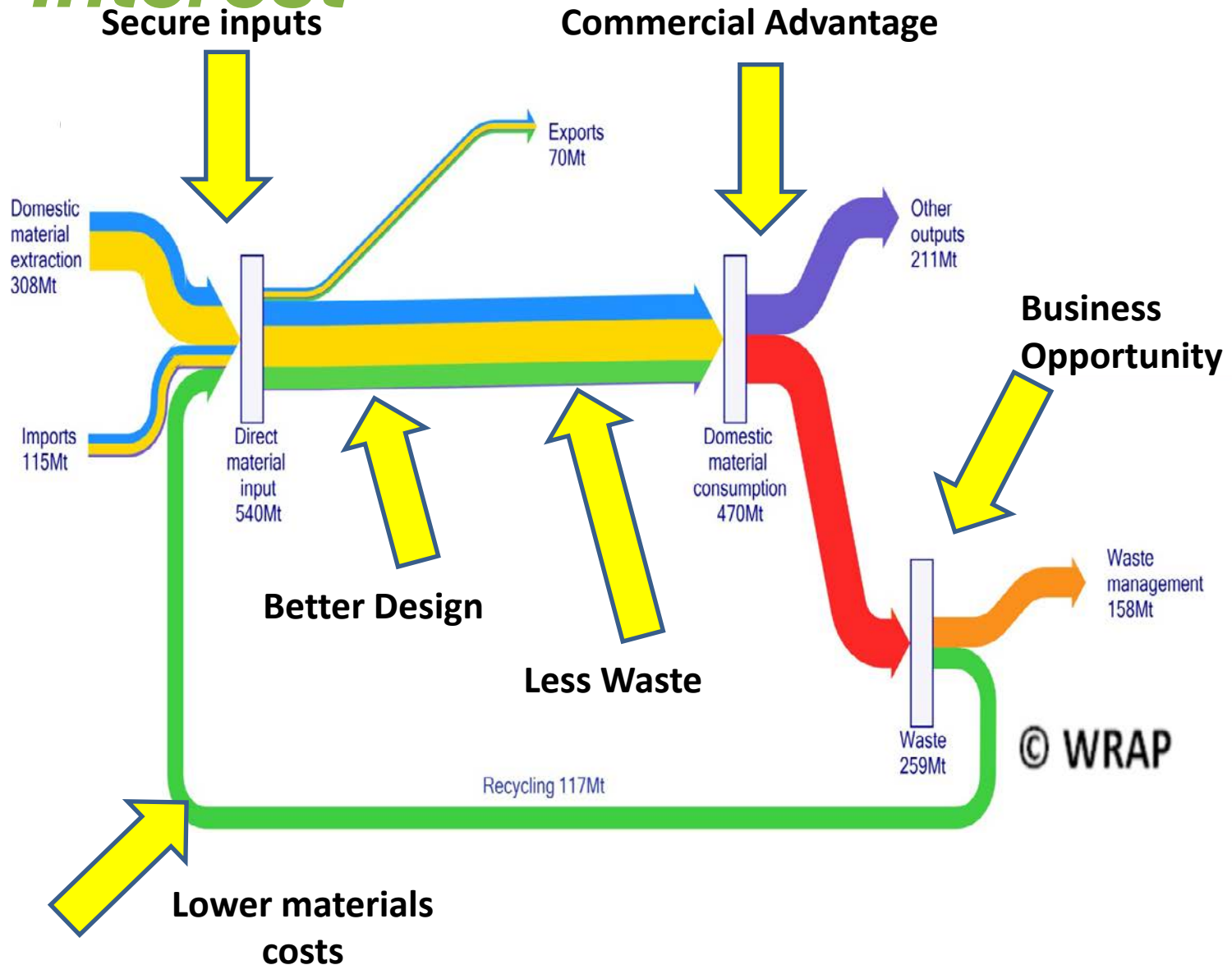


16 U.S. intelligence agencies re
next ¼ century:

growth of middle class,
wider access to new technologies,
shifting economic power,
aging,
urbanization,
growing demand for food and water,
and [U.S.] energy independence



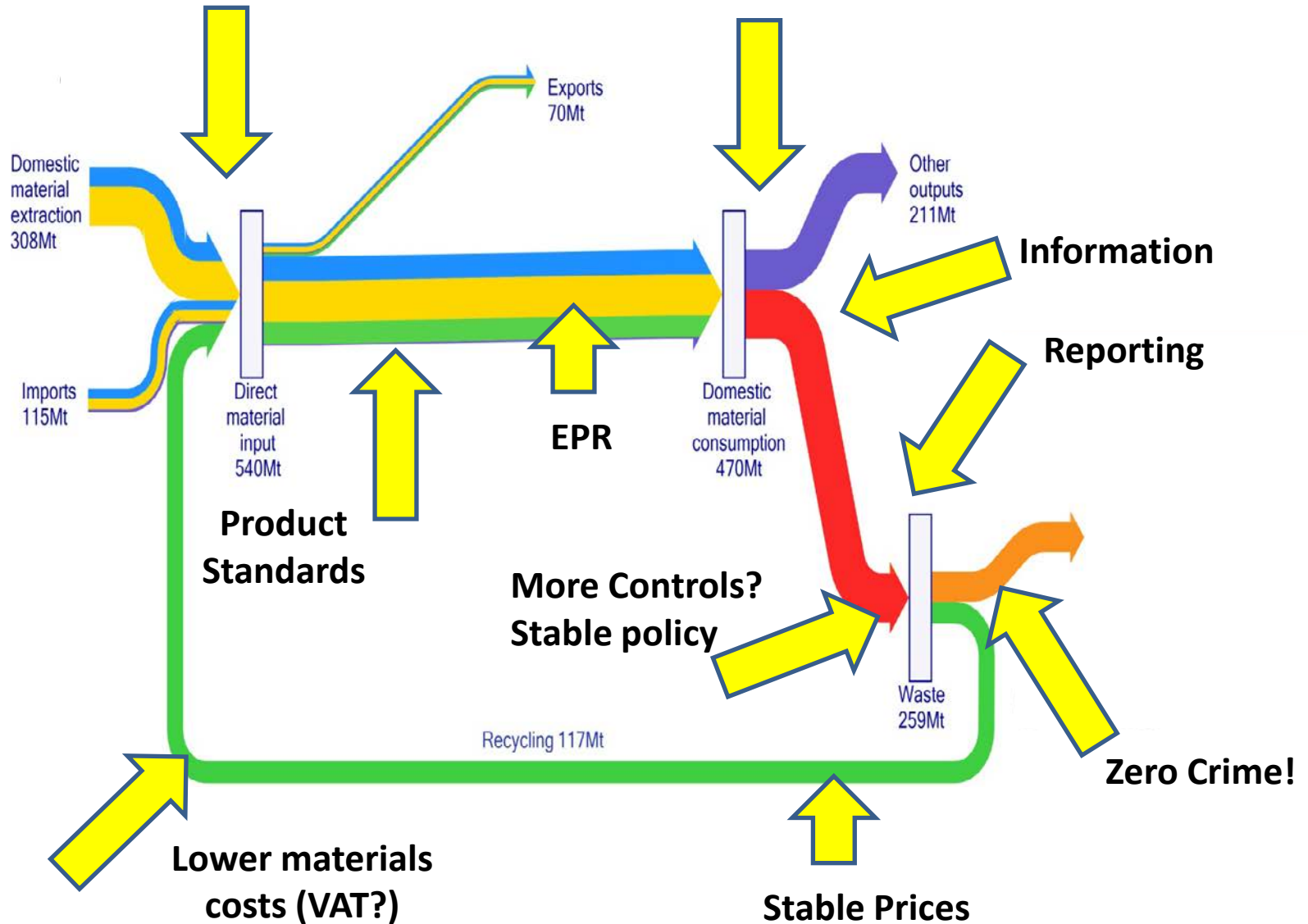
“Business Has a Vested Interest”



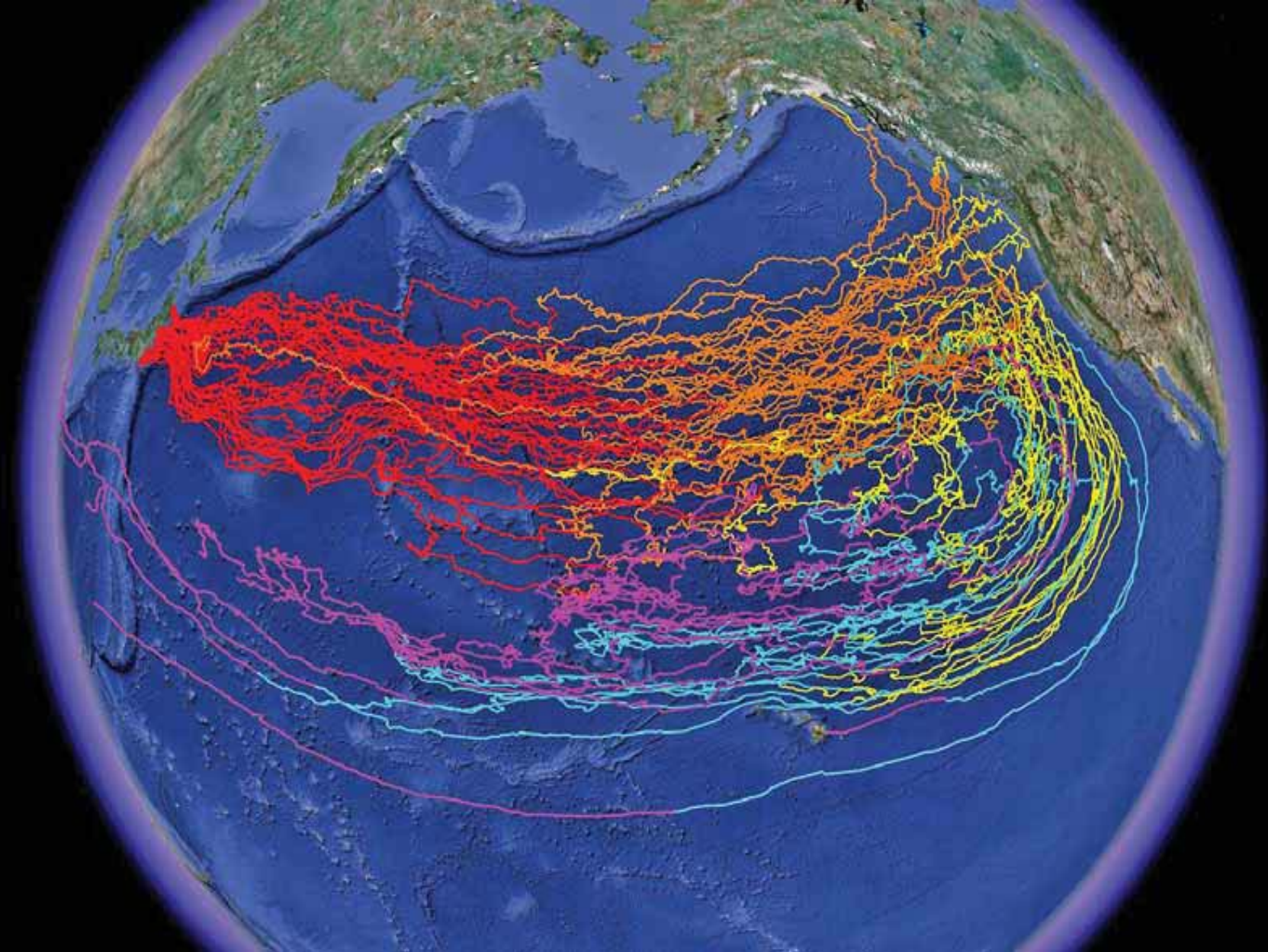
Governments Need to Intervene, *too*

Raw materials Controls

Life Cycle Costing



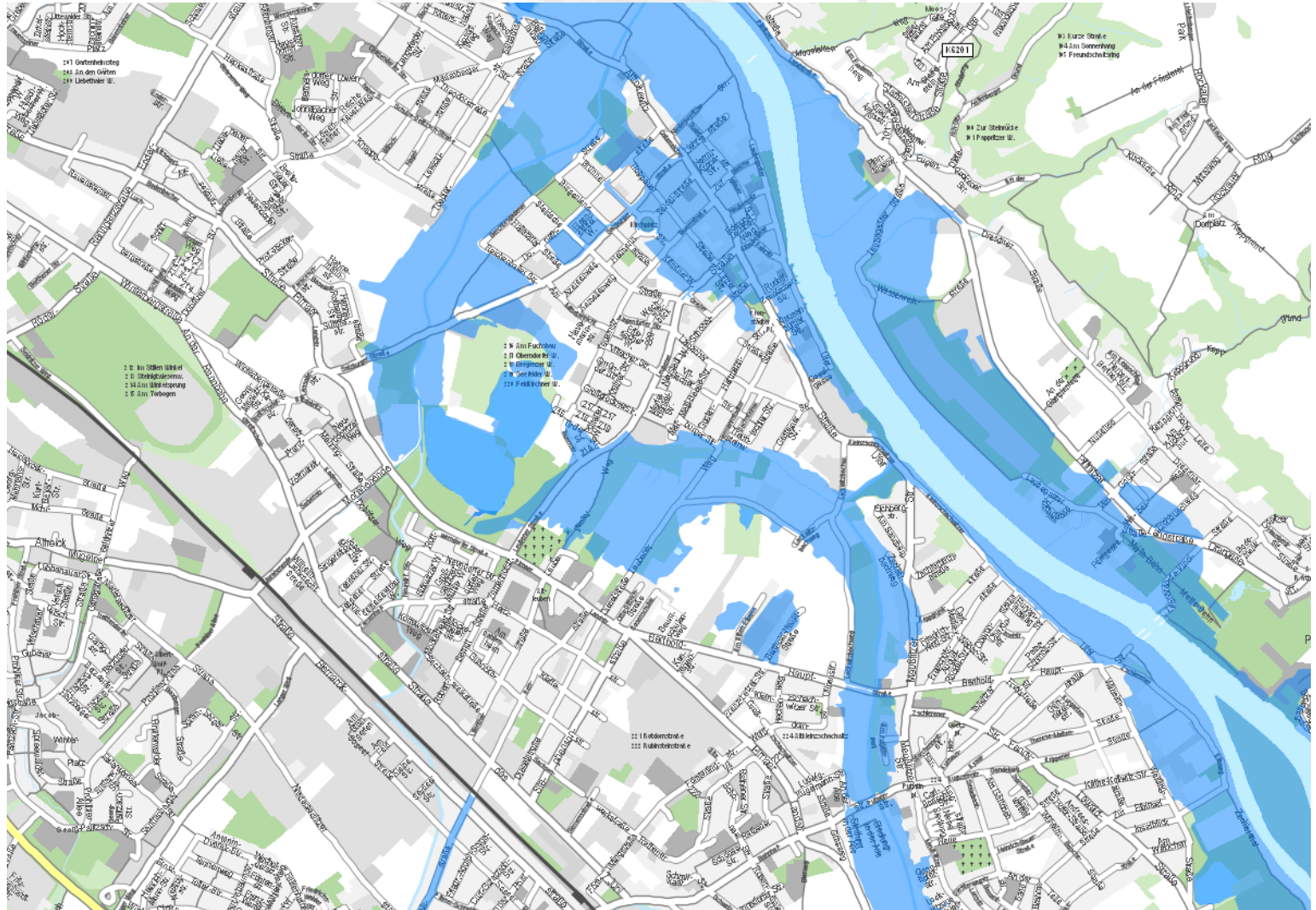




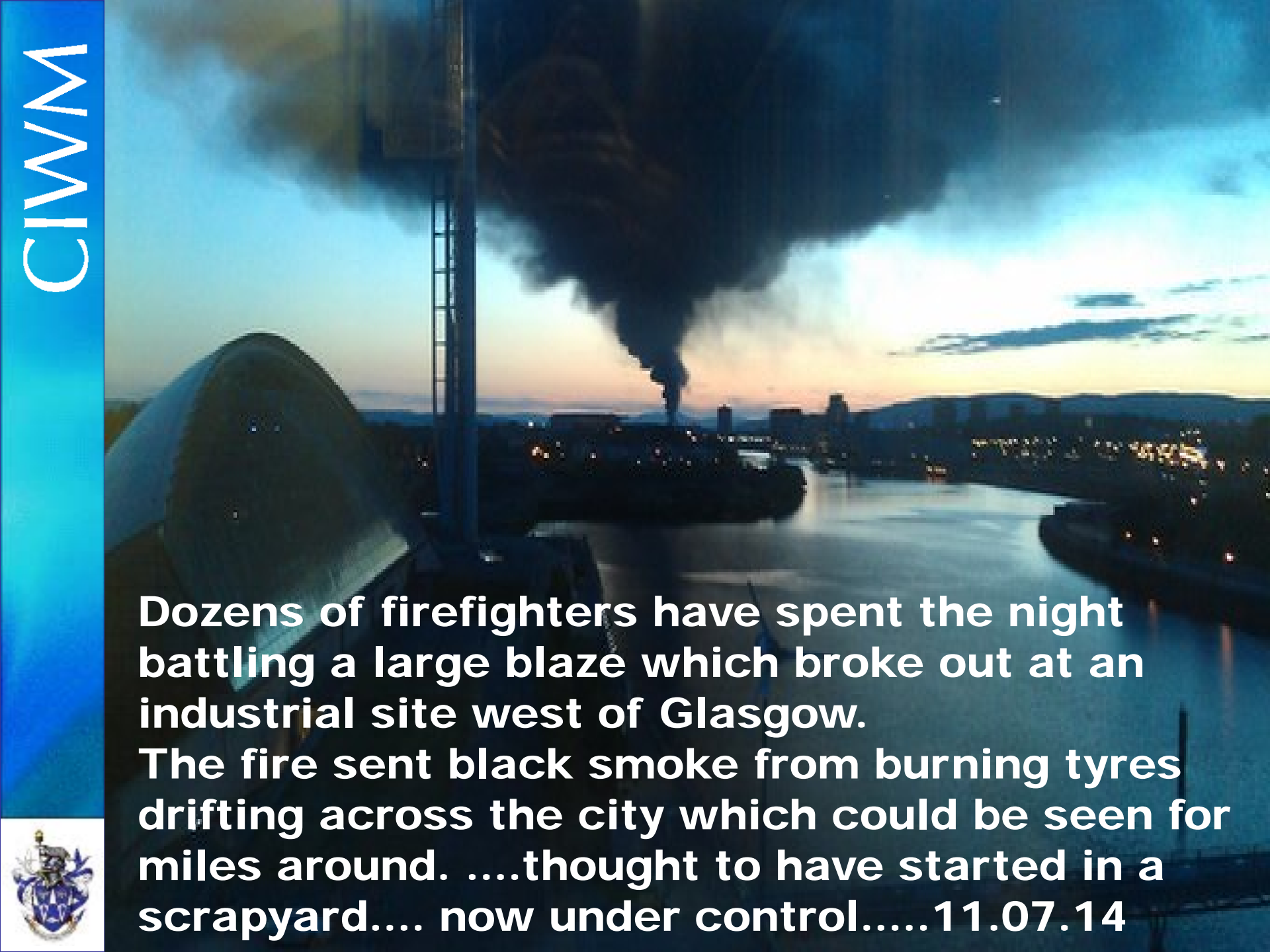
UNEP: managing Post-Disaster Debris – Japan



The 2013 Floods - D



Burghart HENTSCHEL, Managing Director of Stadtreinigung Dresden GmbH



Dozens of firefighters have spent the night battling a large blaze which broke out at an industrial site west of Glasgow. The fire sent black smoke from burning tyres drifting across the city which could be seen for miles around.thought to have started in a scrapyard.... now under control.....11.07.14





