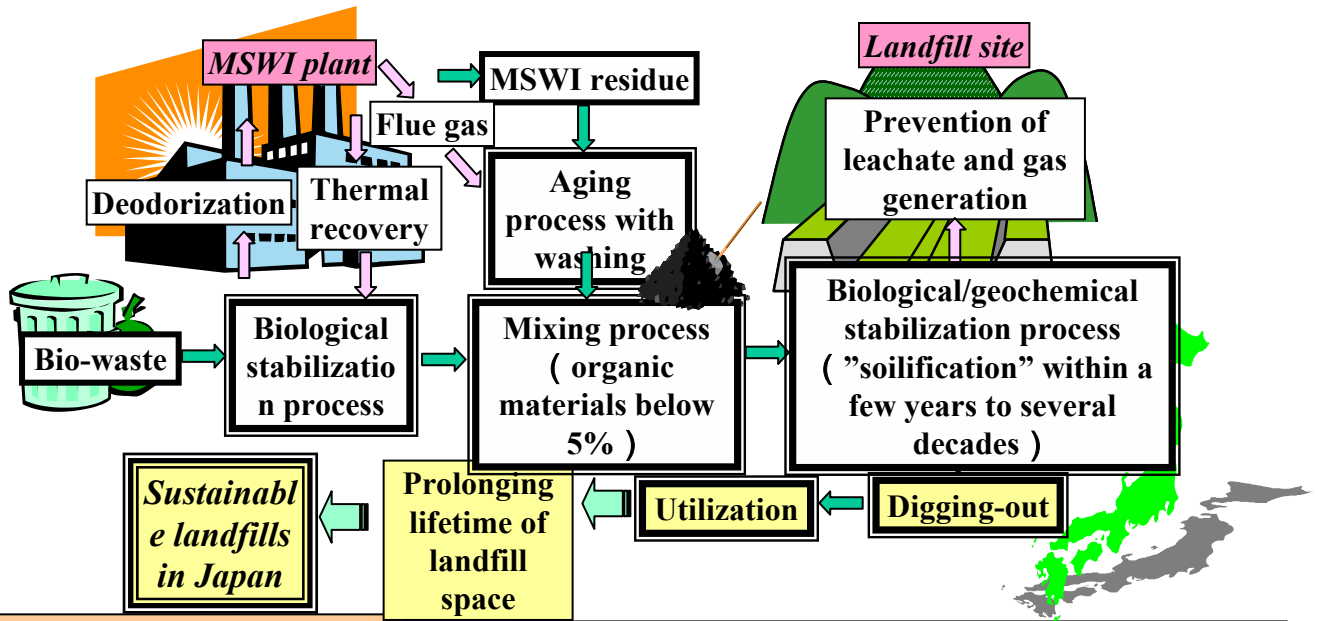


Accelerated Soilification Technology (AST) of MSW Incineration Residue for Landfill Site Renewal

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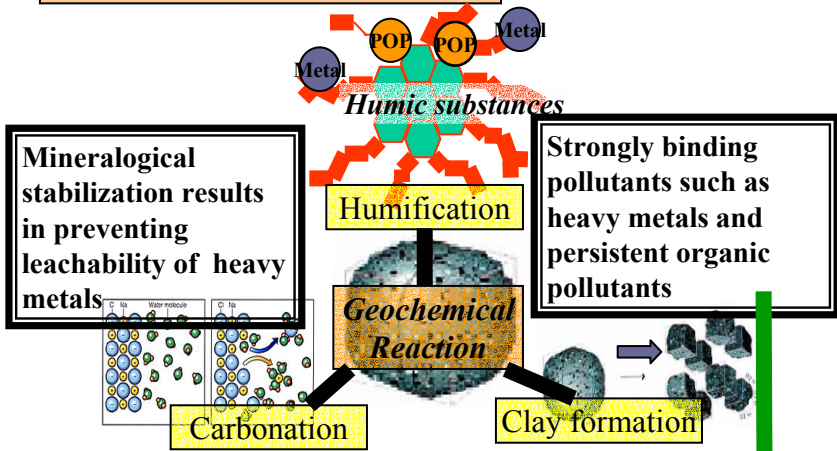


Background

- 1) 78% of MSW is incinerated.
- 2) Around 6 millions t/yr of MSW incineration ash is generated.
- 3) Lack of landfill space
- 4) More than 1800 MSWI facilities.
- 5) Little quantity of MSWI ash and organic waste recycled

Technological Concept and Advantages of "AST"

- 1) Prolonging lifetime of the landfill site
- 2) Lower cost and environmental loads in the life-cycle
- 3) Combination of simple technologies
- 4) Use of geochemical reactions in nature
- 5) Utilization of low-quality organic materials (compost-like)
- 6) Utilization of waste heat and flue gas from the MSWIP



Research Approach for development

- 1) Lysimeter studies
- 2) Observation of landfill layers at actual sites
- 3) Lab-scale experiment using small columns



Extracts depending on layer of the lysimeter A-C

