Technology Development and Transfer in Malaysia - 25 Years of Solving the Puzzle



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Background - turning dumpsite into proper landfill

- ✓ Waste management is traditionally a problem in Malaysia, under the management of the local authorities
 - Open dumping / Open burning
 - Leachate contamination
 - Bad smell / Hygiene problem

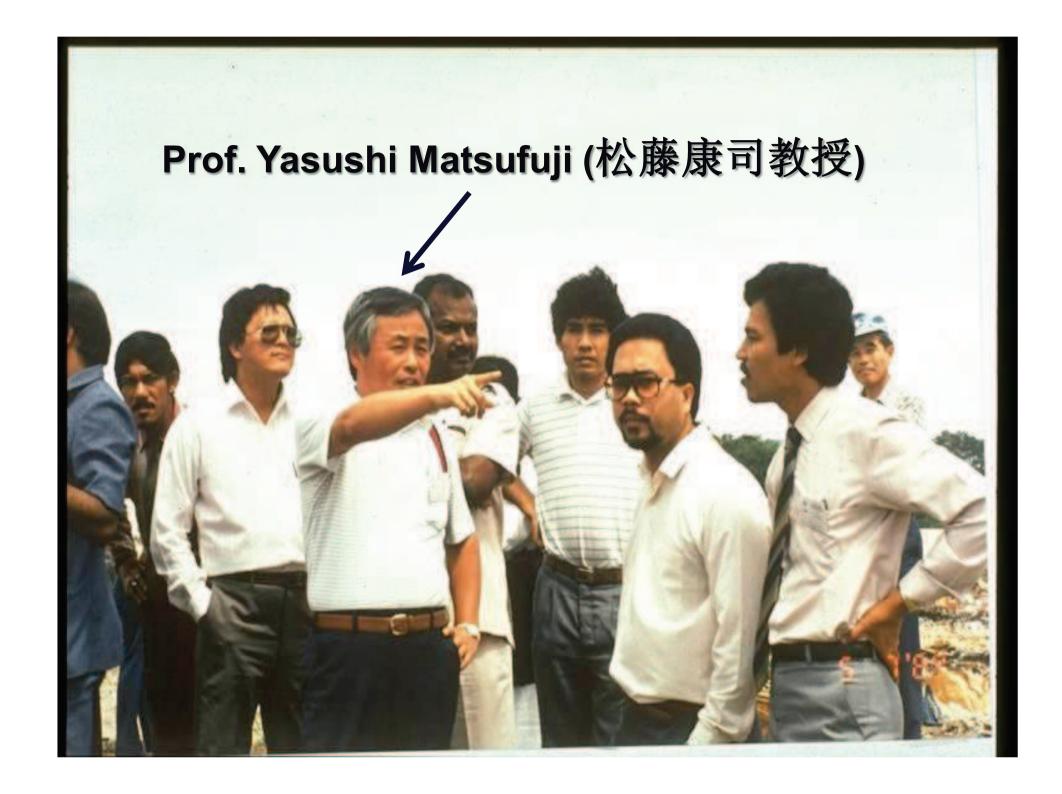
Alarming stage (1987)

- ✓ In 1987, the Malaysia Government requested the Japan Government to assist in improving the waste management as a whole, particularly looking at the disposal sites.
- ✓ In 1988, JICA dispatched technical assistance to Malaysia, selected site at Seberang Prai.

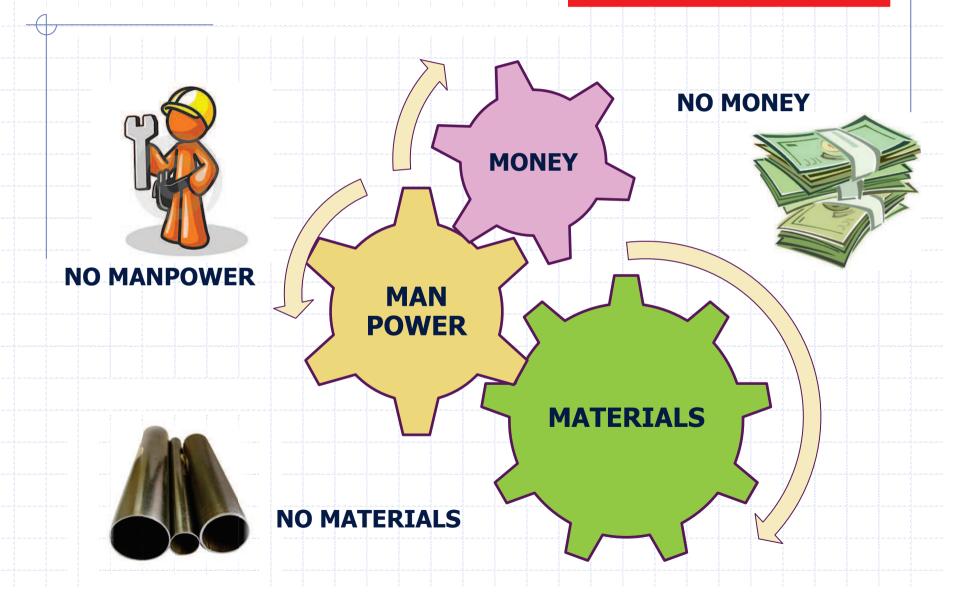




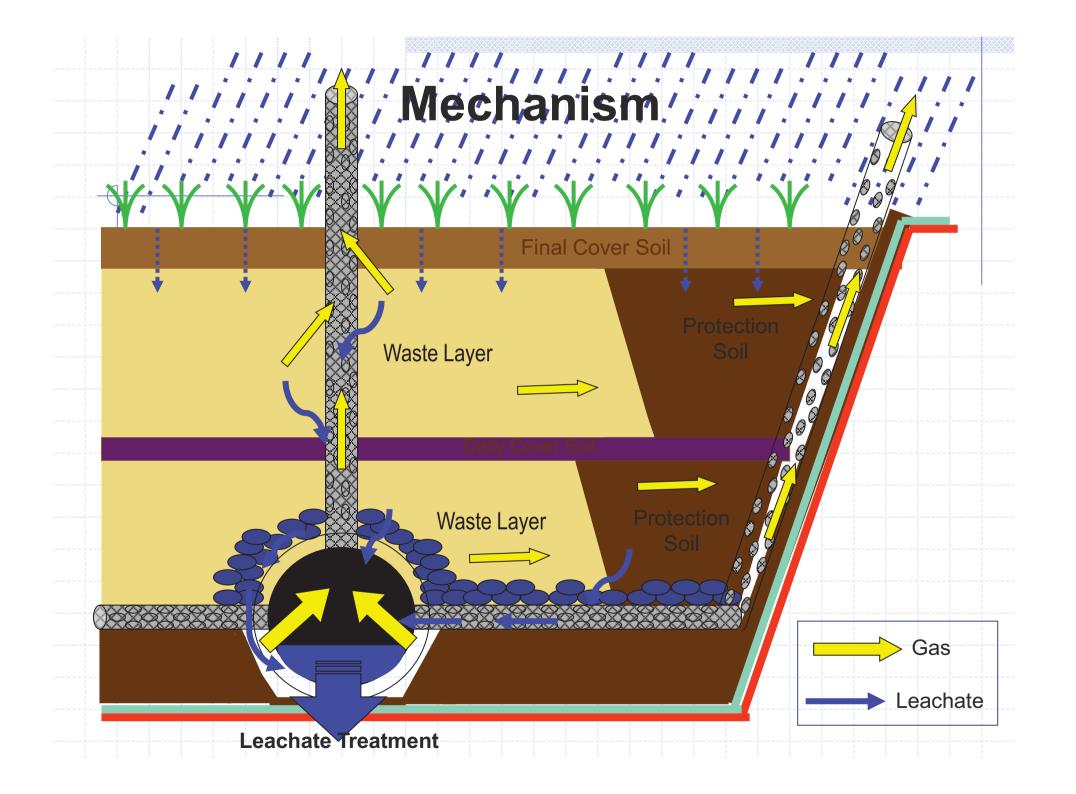


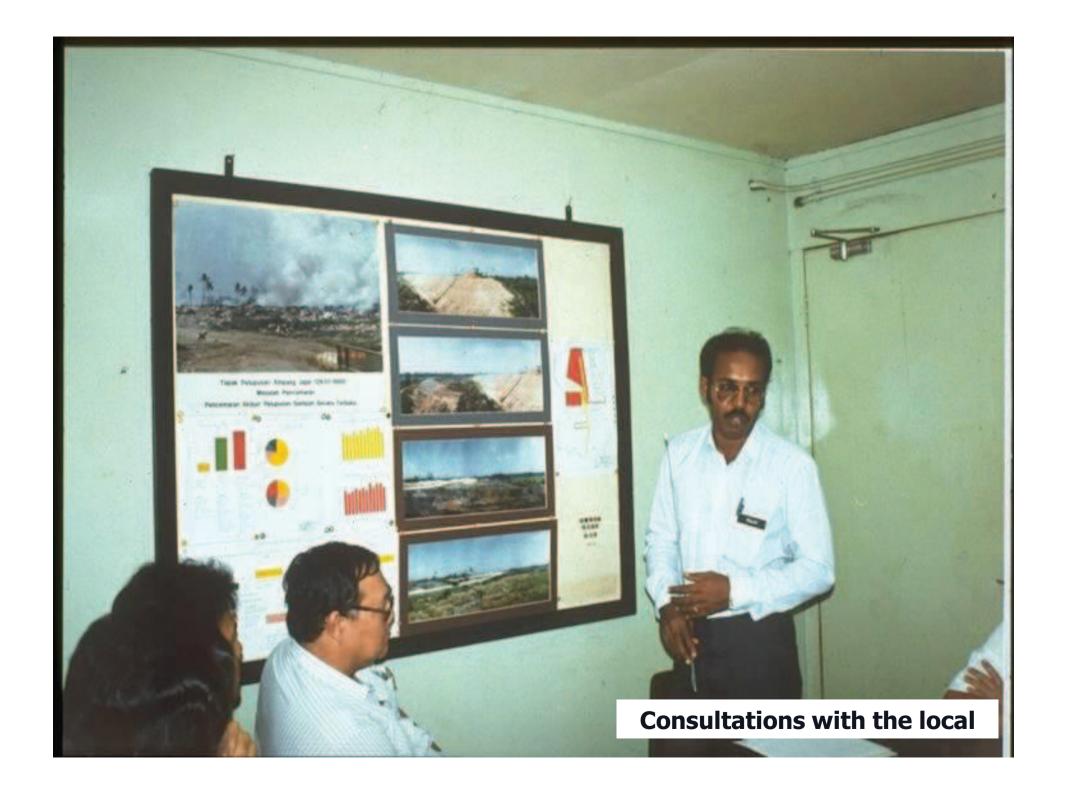


Main Issues Faced LACK OF 3M

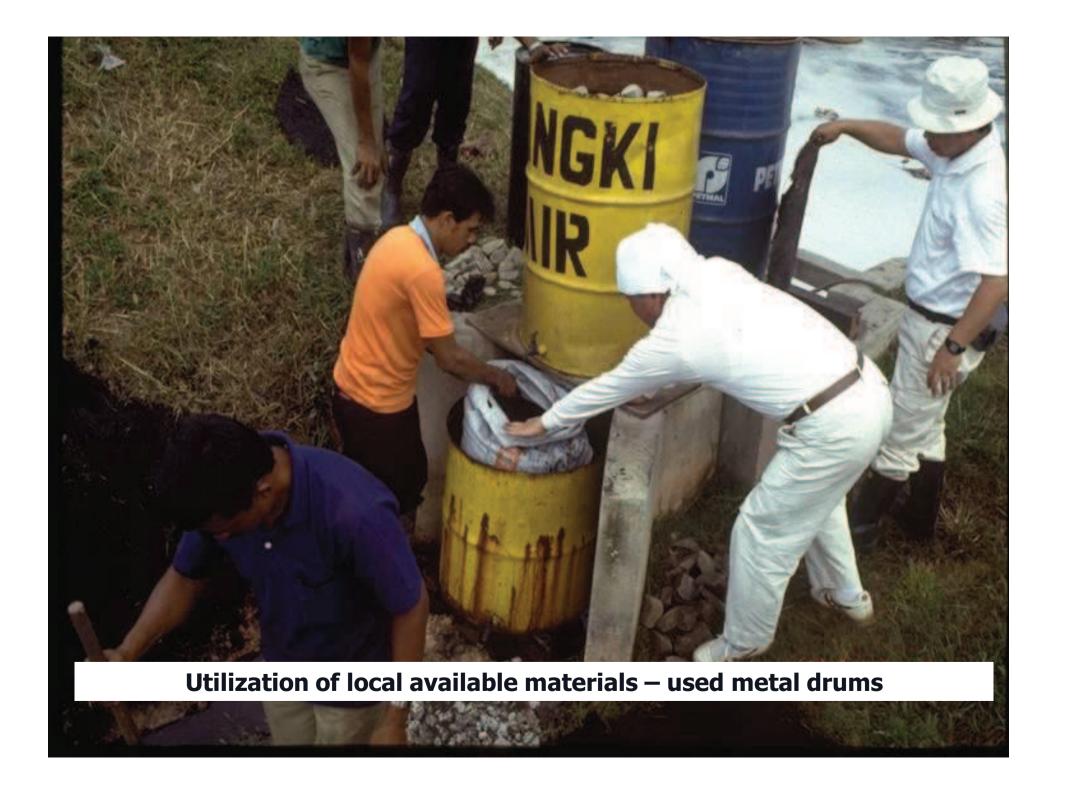


Development of Semi Aerobic Landfill in Malaysia











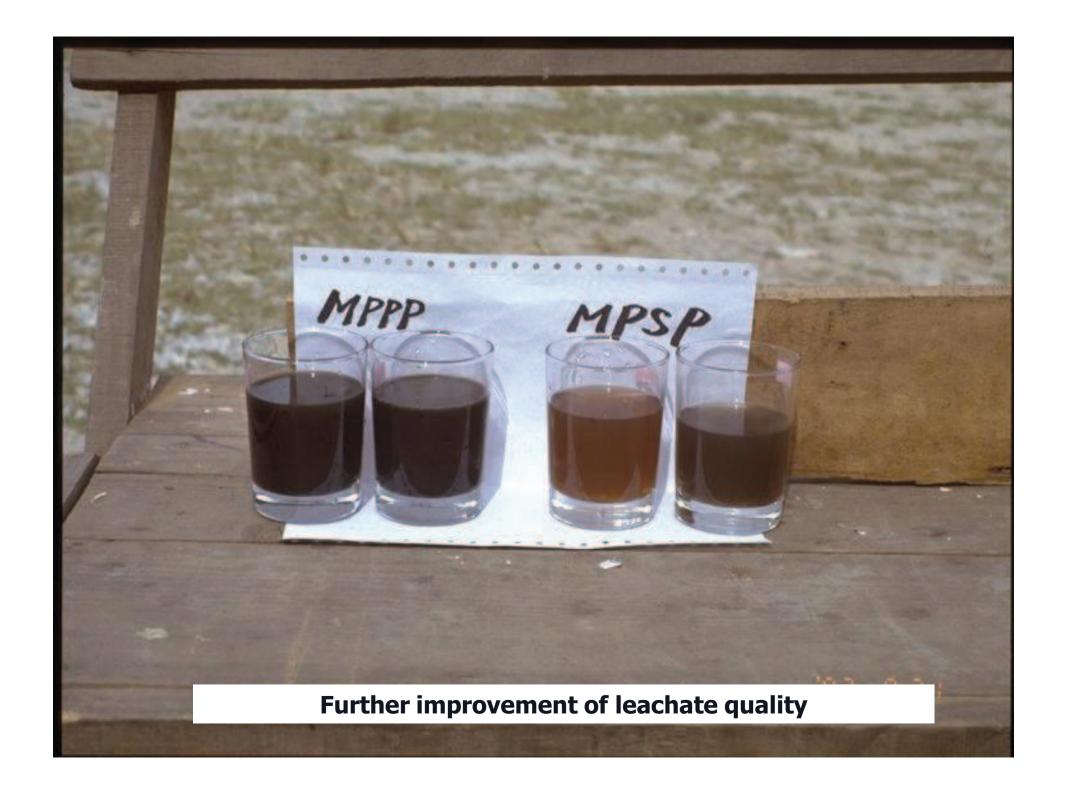


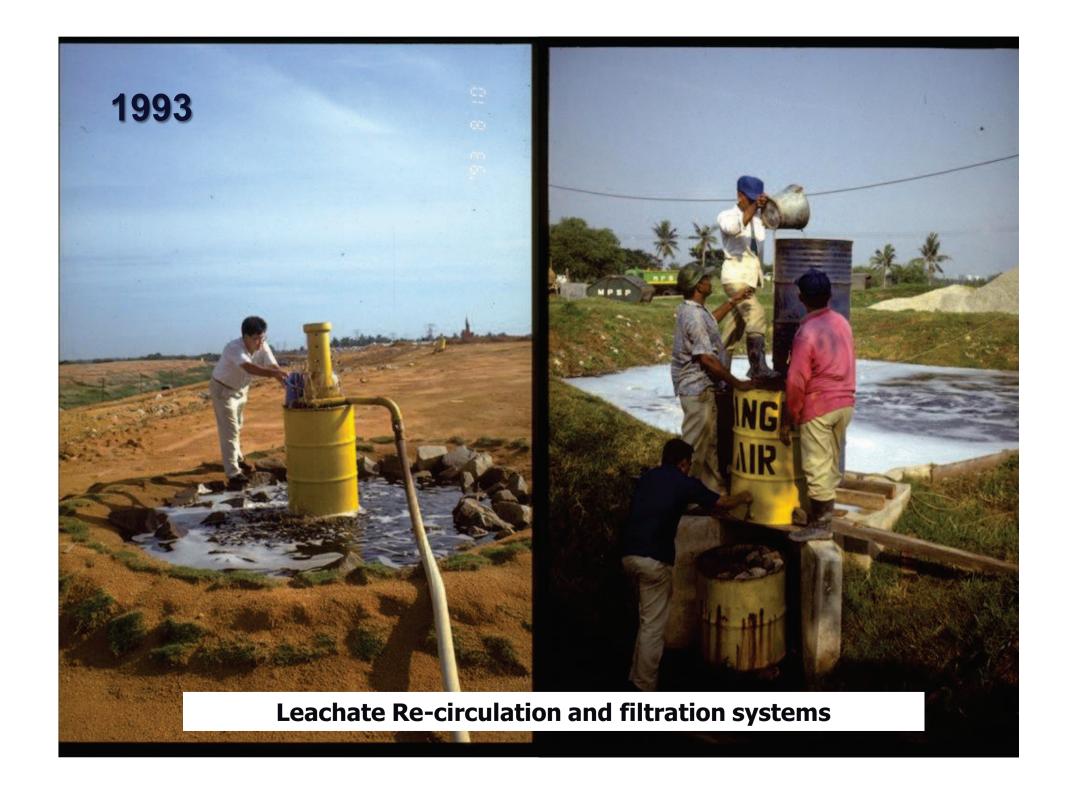


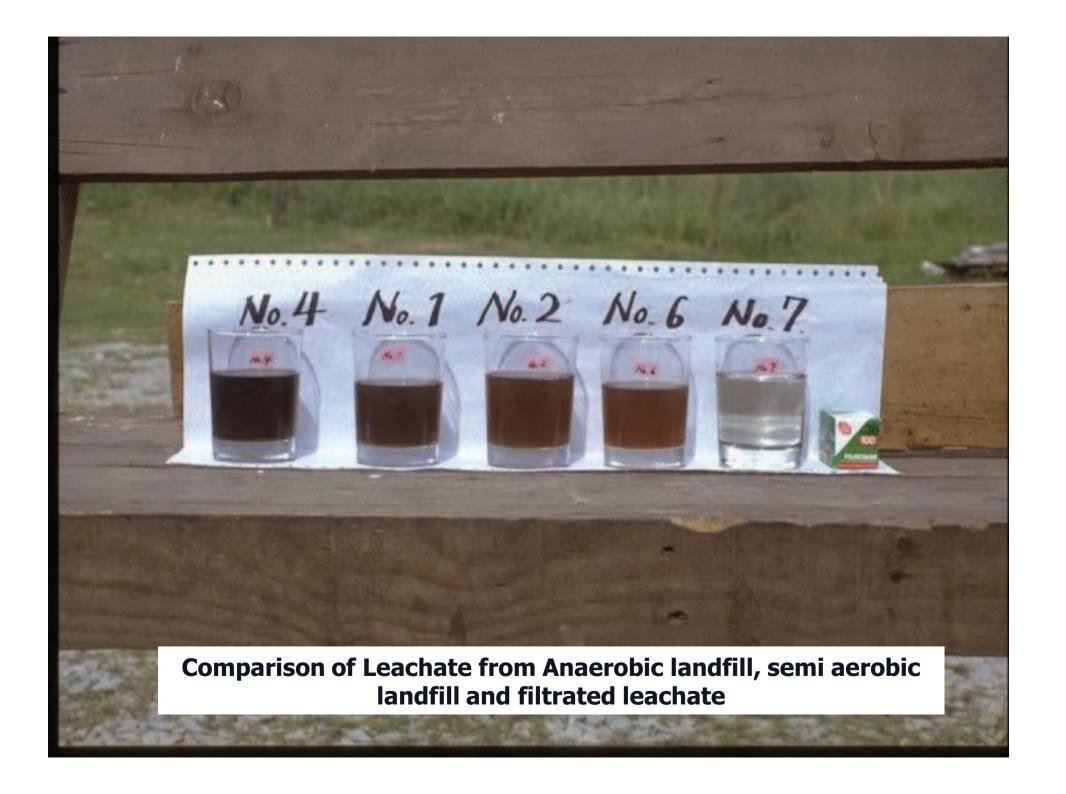




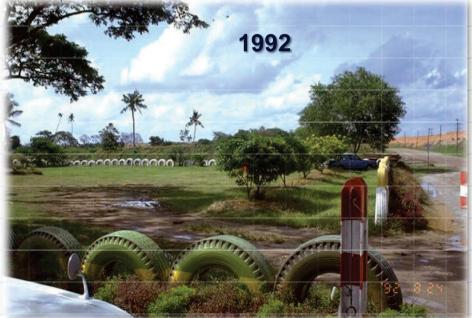










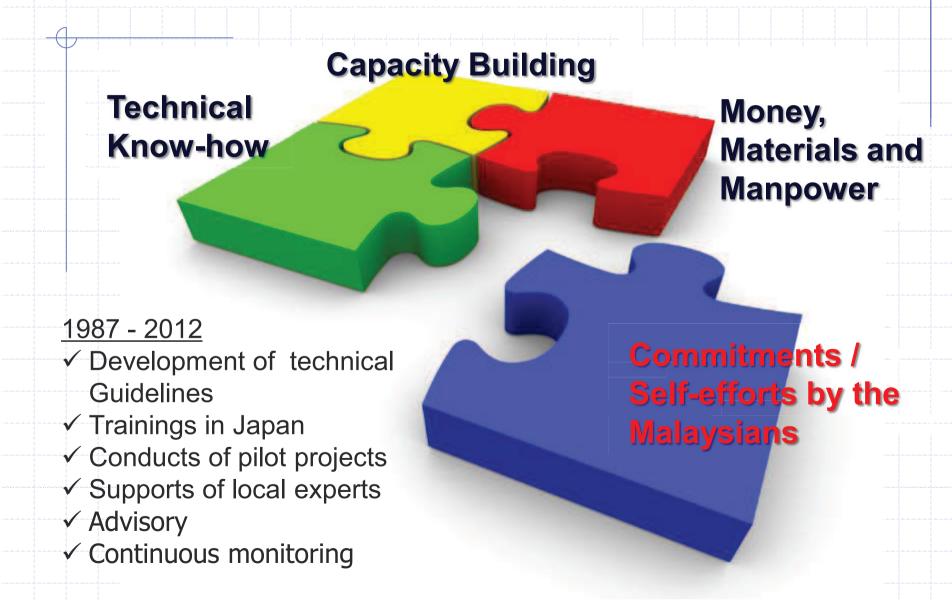


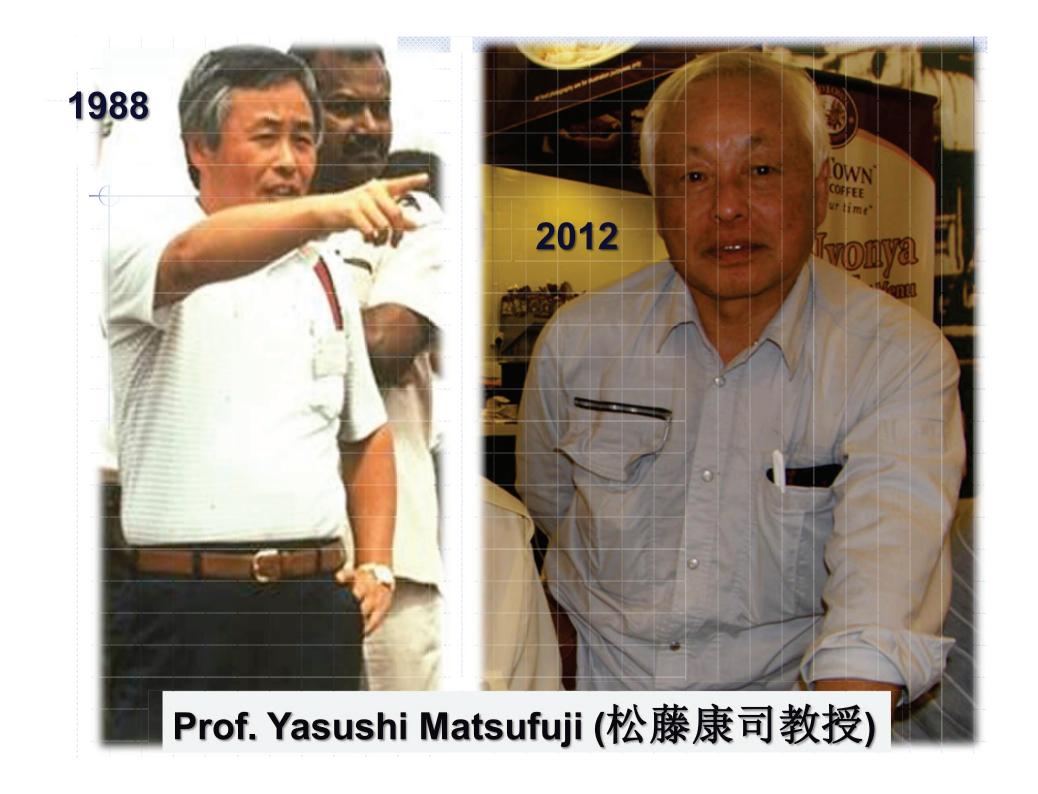






25 Years of Solving the Puzzle





Other Technology Development and Transfer projects in Malaysia



✓ Collaboration project between the Ministry of Housing and Local Government Malaysia (MHLG) and the Ministry of the Environment Japan (MOEJ)

"Development of a National Strategic Plan for Food Waste Management in Malaysia" (October 2011 – March 2013)

Component A (Baseline research)

Gathering and analyzing baseline information and data regarding the existing practices and current situation for organic food waste management in Malaysia

Component B (Pilot Projects)

Implementation of pilot projects to develop effective and replicable models for proper food waste management, including proper treatment of organic food waste











Lessons Learnt about Technology Development and Transfer projects in Malaysia

- ✓ Solving immediate problems, lack of long term planning.
- ✓ Weak in duplication of projects.
- ✓ Commitments from the decision makers
- ✓ High turn over of trained personnel
- ✓ Constraints of local experts
- ✓ Availability of other options / alternatives
- ✓ Other local constraints such as political and economical constraints

Lessons Learnt about Technology
Development and Transfer projects in

Malaysia

- Governments
- Authorities
- Citizens







Effective Landfill Management

Financial

- Local
- Technology Transfer

Affordable Technology

- Self Finance
- Foreign Aid (ODA)

Conclusion

- ☐ Transfers of know-how from Japan to
 Malaysia have contributed significantly to the
 waste management of Malaysia for the past
 25 years, particularly on the upgrading and
 effective management of landfill sites
- ☐ Technology Development and Transfer projects in Malaysia have achieved the objective of "transfer", however, still lacking in terms of "duplication" due to various local constraints





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