

CONTENTS

- 1. Challenges or urbanisation
- 2. Mega Public Events
- 3. Organic waste challenges
- Mega Festival Thaipusam
 - i. The Procession
 - ii. The Pilgrimage
 - iii. The Beginning & the End
 - iv. Coconut Breaking Ritual

- 5. Cleaning up
 - Transportation
 - ii. Treatment at Jelutong dumpsite
 - iii. Crushing & Piling
- Future Challenges
- 7. Conclusion

MEGA EVENTS

- Increasing population
- Urban sprawl occurs as cities grows may result in urban slums without sustainable development
- Celebration of Mega-Public events means more influx of people from outside
- © Creates rubbish disposal problems

MEGA PUBLIC EVENTS

- New Year's Eve Celebration
- Bon Odori
- Chinese New Year Street Party
- George Town Festival
- World Rainforest Music Festival
- Penang Bridge Run
- Nine Emperor Celebration
- Thaipusam





MEGA EVENTS









CHALLENGES OF URBANISATION

- Many cities facing problems with ruralurban migration
- Increasing population
- Urban sprawl occurs as cities grows may result in urban slums without sustainable development
- Celebration of Mega-Public events means more influx of people from outside
- © Creates rubbish disposal problems

ORGANIC WASTE CHALLENGES

Waste Stream	Priority	Area of Capacity Building	Issues
Organic Waste	1	Technical and scientific understanding	Understanding of general public on issue is poor → do not see the necessity to separate the waste at source → need for more technology to process waste at source into useful by-products
	2	Policy and regulatory	State in the process of formulating organic waste policy → for food and green waste → accounts for 40% to 60% of MSW→good collection system needed
	3	Financial	Lack of resources for collection equipment and system→ capacity to raise/secure funds needed → increasing costs of waste management→ no ready market for compost or organic byproducts
	4	Social	Stakeholders don't understand the benefits of separating waste > capacity for awareness raising and community involvement needed
	5	Institutional	Lack of coordination among responsible institutions → capacity for strengthening of institutions and clarification of authorities

MEGA FESTIVAL - THAIPUSAM

- Thaipusam 17 Feb 2014
- Mindu festival celebrated mostly by the <u>Tamil</u> community
- Annual Chariot procession of Lord Muruga from city temple to Arulmigu Sri Balathandayuthapani Temple (Hilltop) along Jalan Waterfall in <u>George Town</u>, <u>Penang</u>.
- 8 km journey
- Estimated over 1 million people



THE PROCESSION







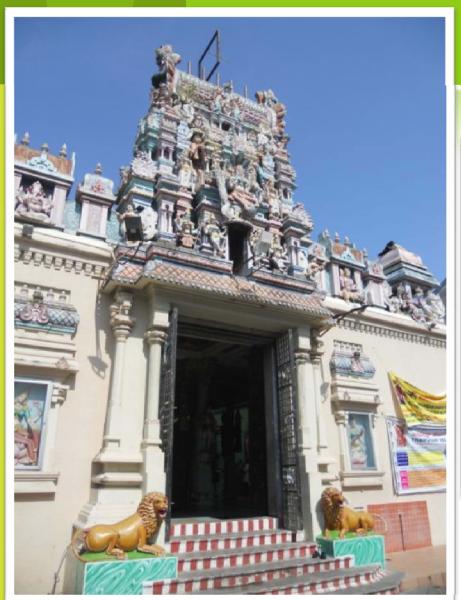
THE PILGRIMAGE







THE BEGINNING & THE END





COCONUT BREAKING RITUAL



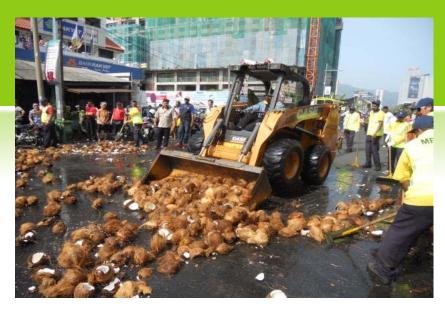








CLEANING UP







TRANSPORTATION





TREATMENT AT JELUTONG DUMPSITE







CRUSHING AND PILING









FUTURE CHALLENGES

Dealing with food waste









Dealing with nonorganic waste



CONCLUSION

Solution

- Balanced and sustainable development in both rural and urban areas
- Integrated and efficient solid waste management
- Public education & awareness campaigns for behavioural change
- Strong political will

THANK YOU