

## CIP X-ray Sterilisation 29<sup>th</sup> May 2013

## **PE COI MedTech Initiative**

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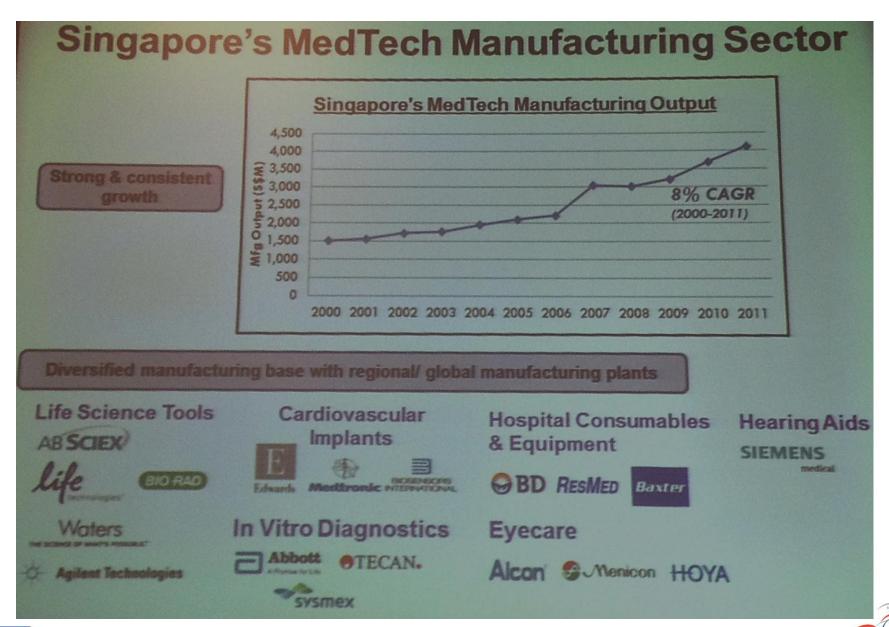


## **Growing MedTech Industry**

- Tripled its manufacturing output from S\$1.5 billion (2000) to S\$4.3 billion (2011).
- Manpower base more than doubled from about 4,000 to 9,000.
- By year 2015, targets to achieve S\$5 billion in manufacturing output.











# Do You Know?



Singapore manufactures 25% of the thermal cyclers in the world.

Singapore also manufactures 30% of the infusion pumps in the world





.....and 10% of the safety syringes in the world.





#### Medical Technology Cluster in Singapore





## **MedTech Initiatives**

#### **Objectives**

- To help build the capabilities of local manufacturing industry for Medtech manufacturing
- To provide technology transfer and knowledge sharing
- To facilitate greater **interaction and leveraging of expertise** from industry, research institutes and funding organisations

#### **Industry Outreach and Knowledge Sharing**

- Workshops, Seminars, Conferences
- Compliance Training ISO/FDA
- WDA Course Grad Dip MedTech

#### **Technology & Capability Development**

- To develop in-line sterilization process for medical devices
- Joining & forming technologies for implants



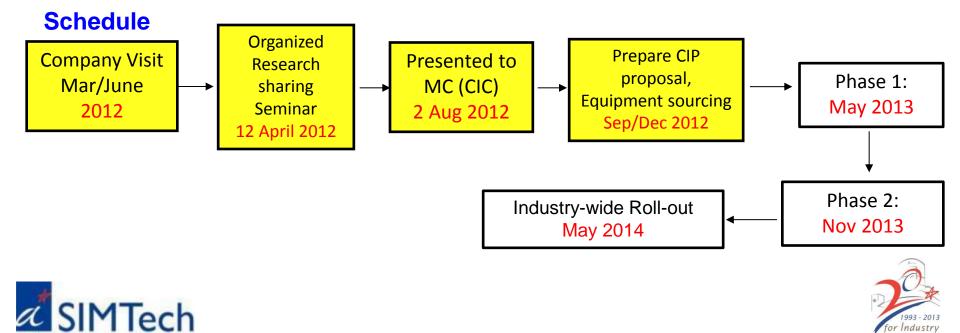


## **CIP on X-Ray Sterilization**

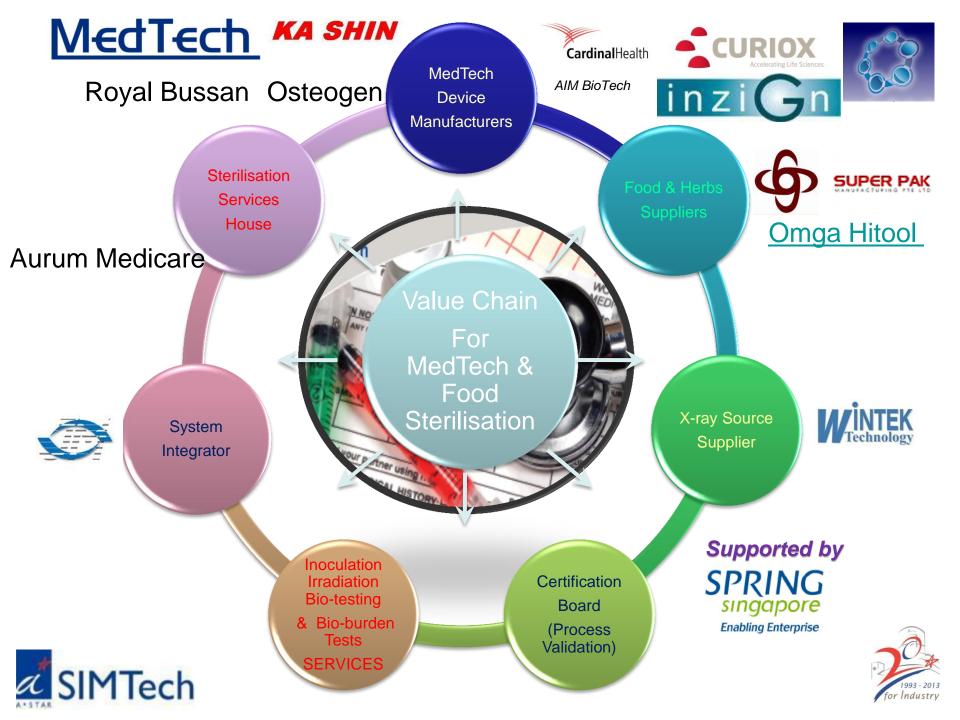
**Objective:** Phase 1: Feasibility study of X-Ray sterilization for MedTech Phase 2: Design and build-up X-Ray sterilization equipment

#### **Benefit/ Impact**

- Reduce the high logistic cost and political risk to send accumulated goods to local or oversea sterilization facilities
- Increase the manufacturability of local Med-Tech devices industries for high value add products.







## **CIP on Hermetic Sealing of Biomedical Devices**

**Objective:** Phase 1: Encapsulation/Manufacturing of high quality ceramic/metallic casing for biomedical devices using advanced manufacturing technologies Phase 2: Hermetic sealing using advanced joining technologies

