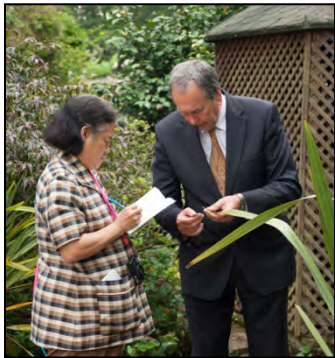




Cross-cultural scientific engagement regionally and locally - botanic gardens, seed banks and caring for country



Stephen D. Hopper AC
Winthrop Professor of Biodiversity
The University of Western Australia



IPAA 2014 International Conference Perth Convention and Exhibition Centre
Session: Practical Engagement in the Asian Century
River View Room 5 11.40-12.30am 29th October 2014

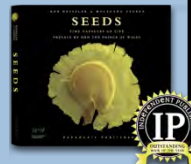
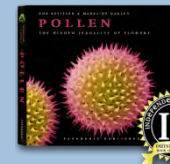
Key Points

- Botanic gardens – a growing industry and massive Asian investment e.g.
 1. Gardens by the Bay, Singapore
 2. The Seed Cathedral at World Expo, Shanghai
 3. Chinese investment in Science and Botanic Gardens
- RBG Kew's Millennium Seed Bank Project, addressing the decline of global biodiversity
- Changing the trajectory and living sustainably with biodiversity – cross cultural (two-way) science with Noongar Aboriginal people

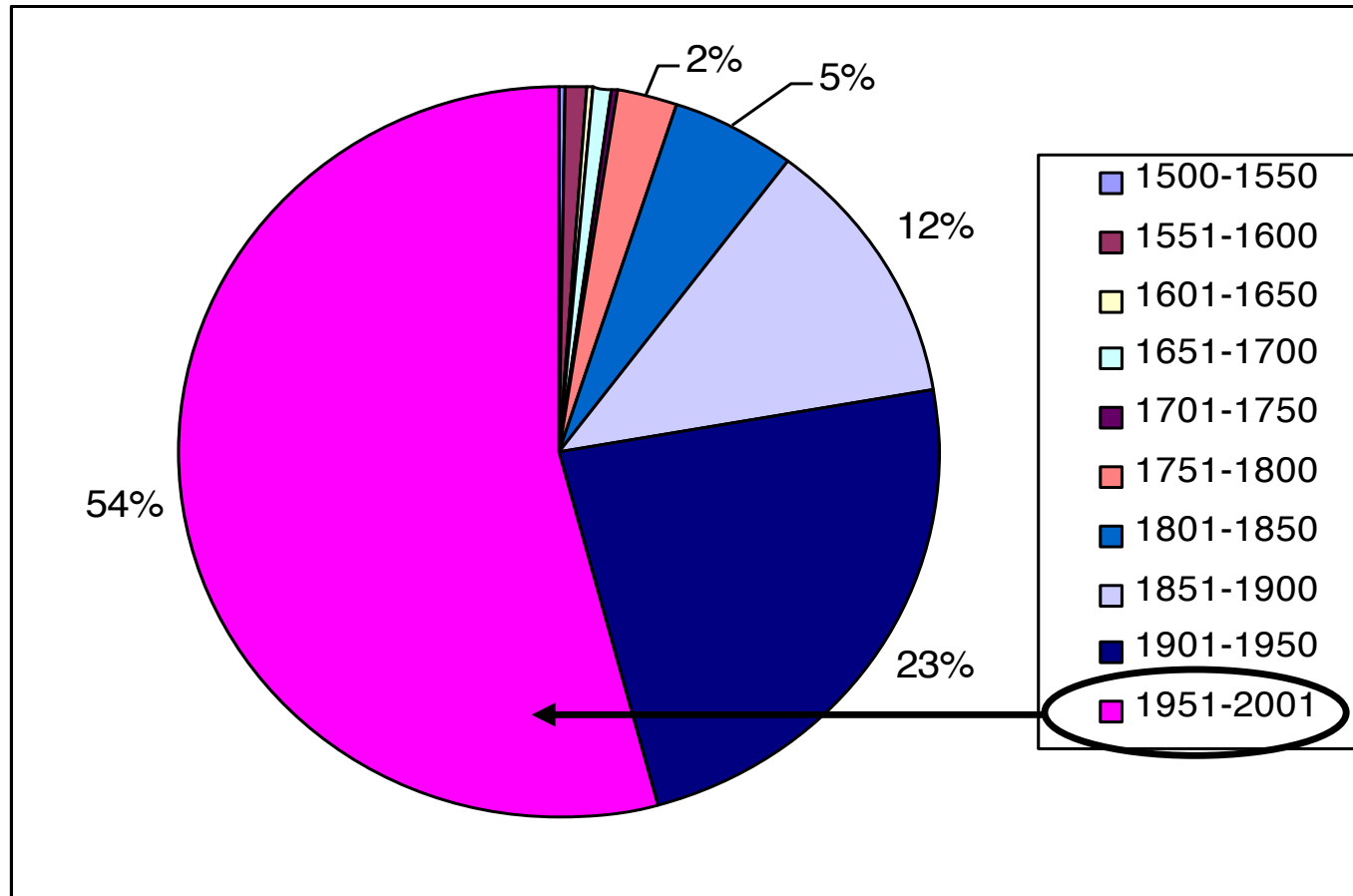
Botanic Gardens and Practical Enga



Royal Botanic Gardens
2006-2012



An ongoing growth industry – dates of establishment of botanic gardens



21st Century – Gardens by the Bay Singapore



CEO Dr Kiat Tan



<http://turizmaz.com/wp-content/uploads/2013/10/310.jpg>



http://farm9.static.flickr.com/8055/8090312671_704a53b5df.jpg

Land value	\$7 billion
Construction cost	\$1.035 billion
Opened	29 th June 2012
Operating cost 2013	\$69 million
Income 2013	\$49 million
Visitors p.a.	1.7 million

Rethinking ...
towards
plant-based
solutions,
helping
human
adaptation

Kew

PLANTS PEOPLE
POSSIBILITIES

a new mission...

2006/07

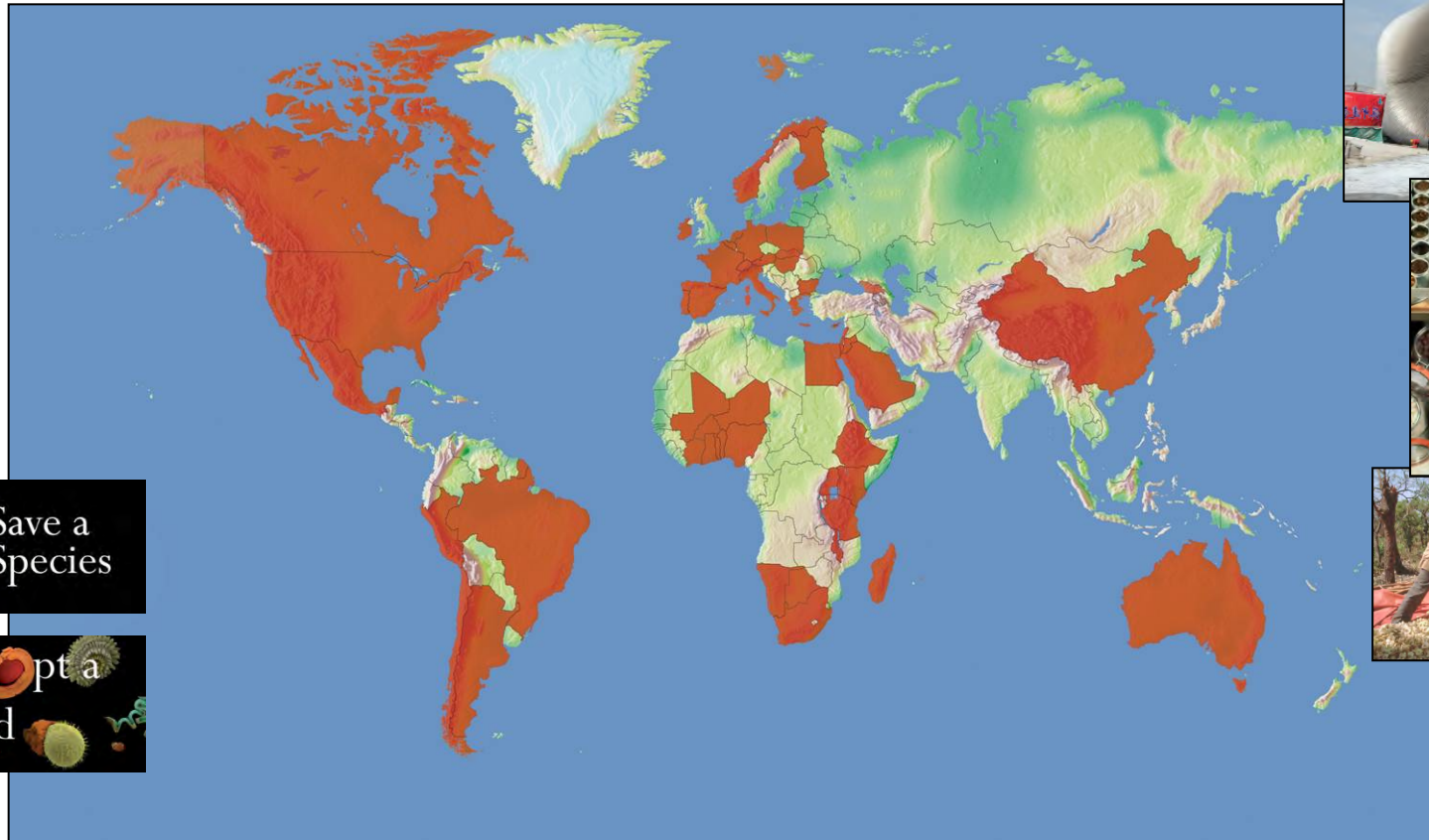
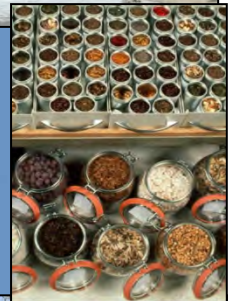
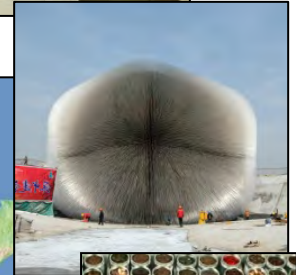
to inspire and deliver science-based
plant conservation worldwide,
enhancing the quality of life



Kew's Millennium Seed Bank Partnership: conserving and enabling the use of wild plant diversity

10% by
2010

25% by
2020

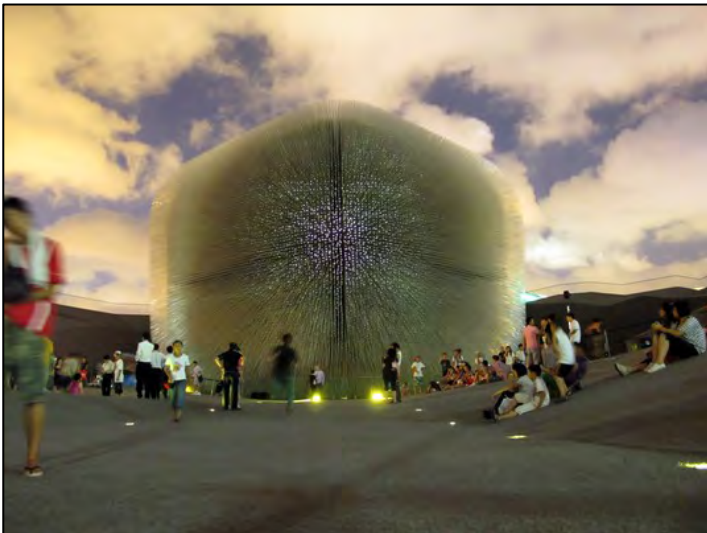


The Seed Cathedral – World Expo 2010 Shanghai UK Pavilion

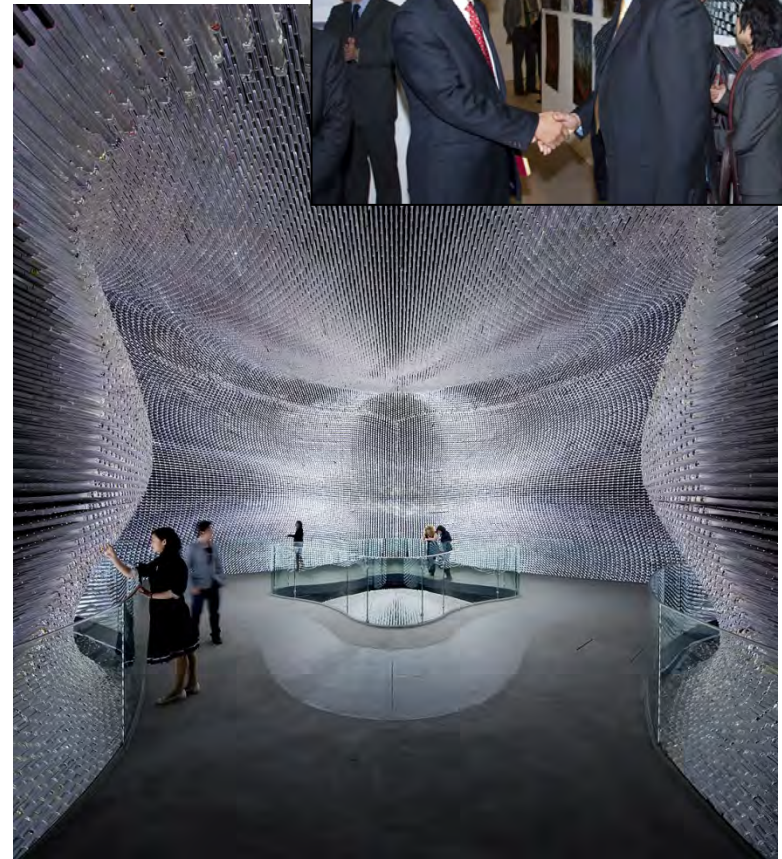
“... exploring the relationships between cities and nature and the significance of plants to human health, economic success and social change”



- 60,000 rods of clear acrylic
- each 7.5 m long
- 250,000 Chinese seeds cast into the glassy tips



8m visits
6 months
Gold medal



China

Germplasm Bank of Wild Species
at Kunming Institute of Botany

R&D spending to 2.5% of GDP by 2020



South China Botanical Garden
Chinese Academy of Sciences



Seeds of global crop wild relatives are an emerging priority

Svalbad Global Seed Vault



Kew's Millennium Seed Bank



Hibiscus huegelii. Image courtesy Of Wolfgang Stuppy.
Seeds - Time Capsules of Life © Rob Kessler,
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Two-way science – shared knowledge systems



Boodja, moort, kartidjin

The ultimate partnership – caring for country, family, knowledge



Artwork – Richard Walley