

## 2012/SOM1/EC/WKSP/019

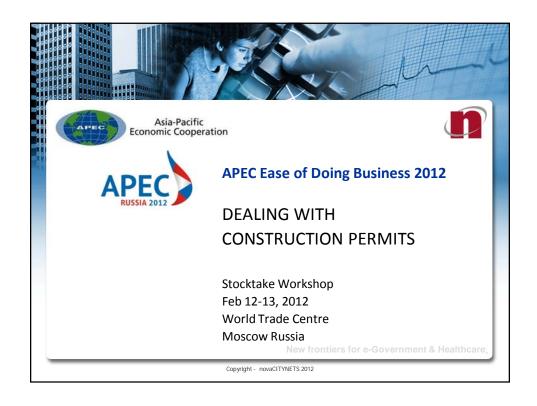
Session 7

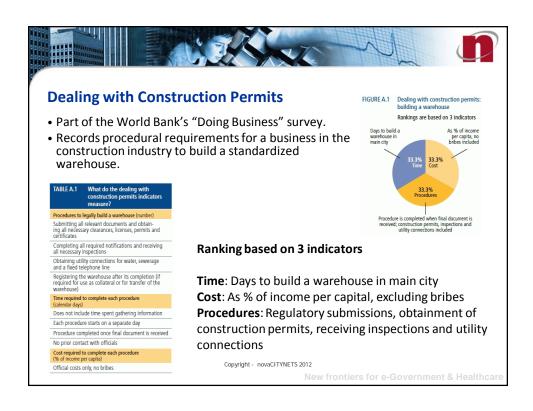
# **Dealing with Construction Permits**

Submitted by: novaCITYNETS



APEC Ease of Doing Business 2012 Stocktake Workshop Moscow, Russia 12-13 February 2012







#### **Dealing with Construction Permits**

- Time and procedures in construction permitting is the biggest "regulatory impediment" to doing business. (EODB survey in 2009)
- Ease of Doing Business Phase 2 Dealing with Construction Permits (DCP) Diagnostic Study:
  - Peru March 26 to 30, 2012
  - Thailand May 28 to June 1, 2012
  - Indonesia August 6 to 10, 2012



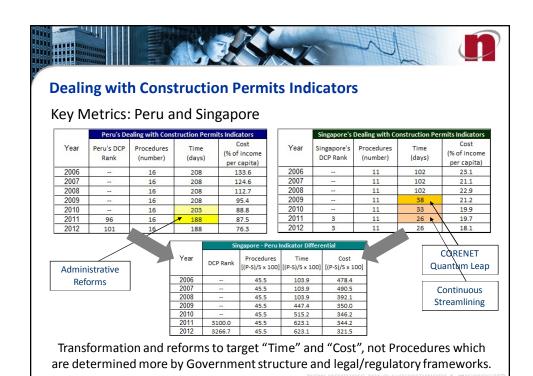


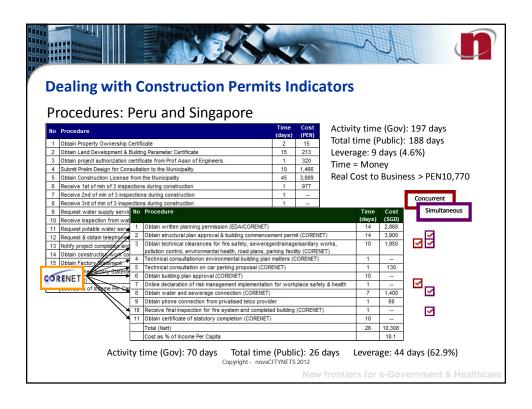


- Singapore Team (IE Singapore and novaCITYNETS) to:
  - Liaise with Government of Peru to set a schedule of meetings in Lima to interview key stakeholders (regulatory departments and industry players) to understand current regulatory and business environment relating to DCP, key constraints and areas of improvement.
  - Develop diagnostic report to help the Government of Peru identify opportunities for reform and/or transformation, assess and advise expected costs and benefits of exploiting such opportunities.

Copyright - novaCITYNETS 2012

New frontiers for e-Government & Healthcare









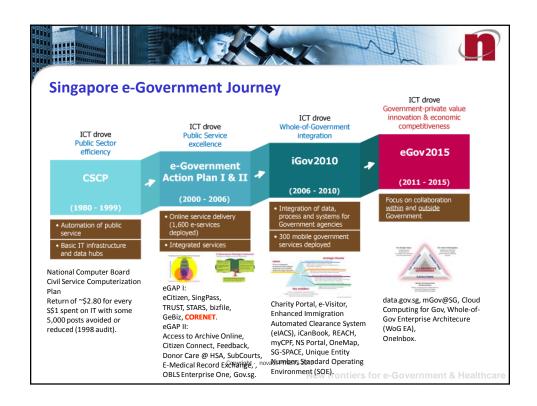


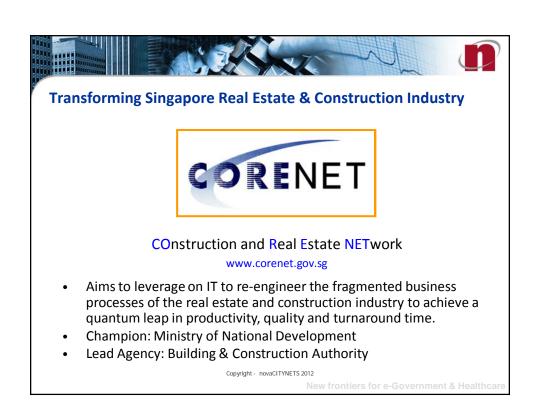
## The Singapore Approach ...

- Well thought-out Concept and Master Plans;
- Strong political leadership with citizens' mandate to enforce development plans;
- Constant reform of physical development regulations since 1965 and aggressive use of Information Technology since early 80's to ensure better physical development control and enforcement;
- Better co-ordination and interaction between various agencies and departments resulting in improved efficiency .

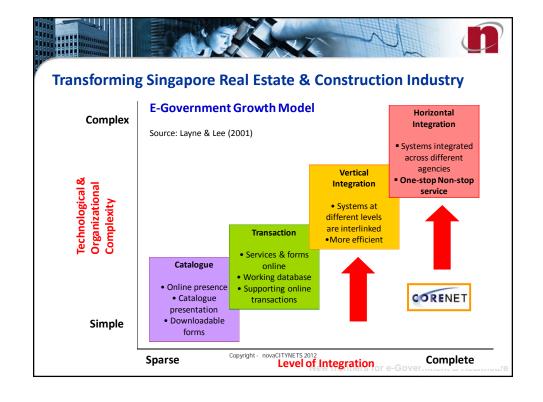
Copyright - novaCITYNETS 2012

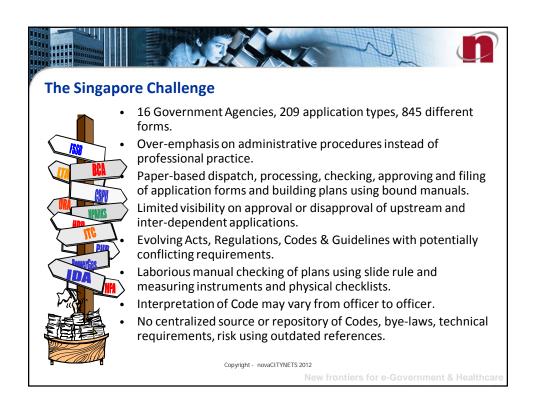
New frontiers for e-Government & Healthcare

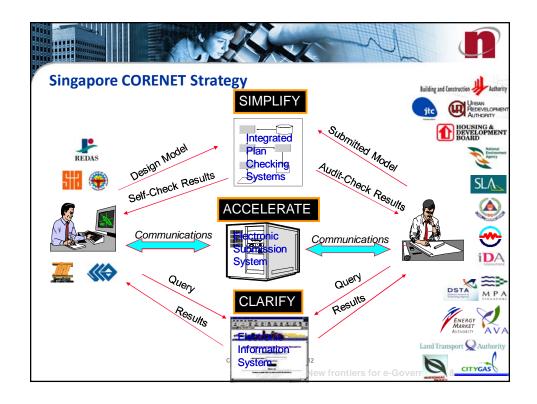


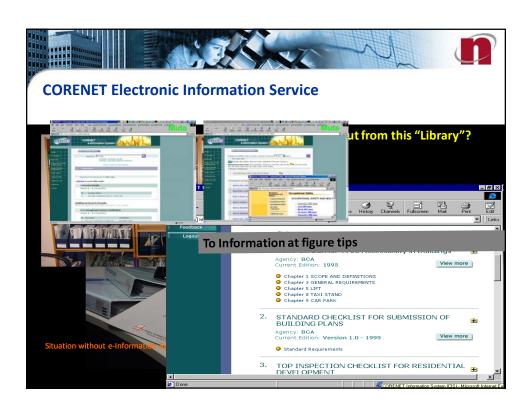


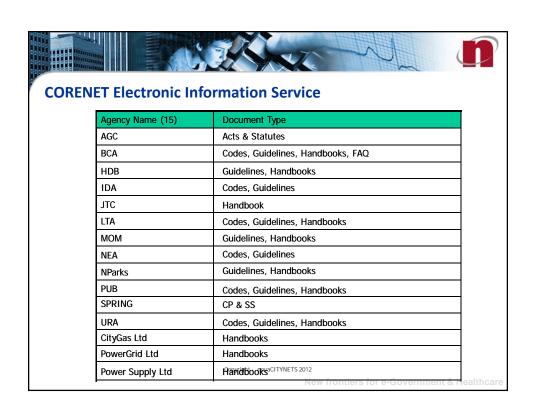


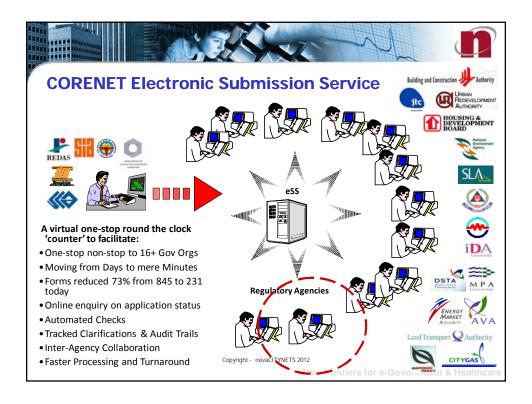


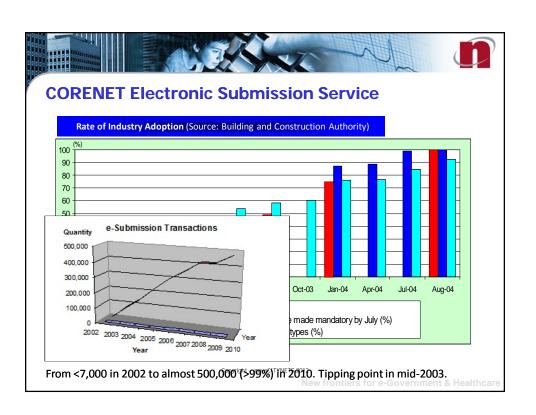


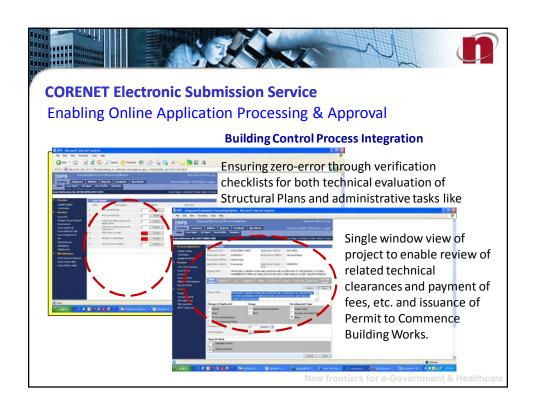


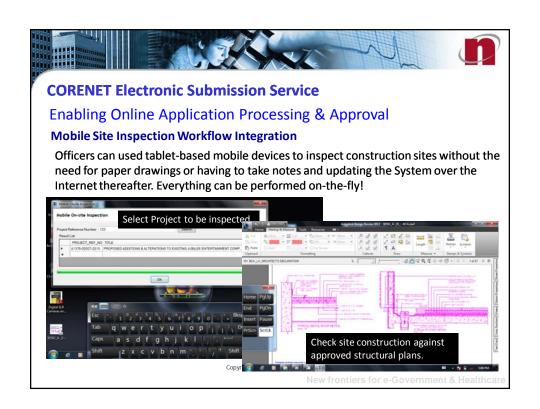


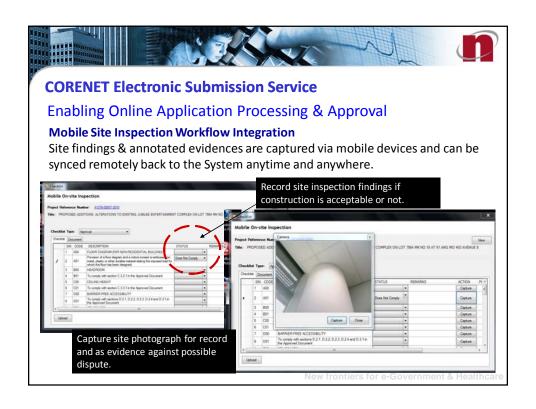


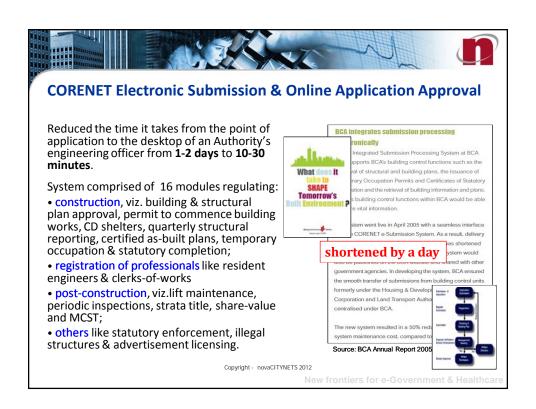


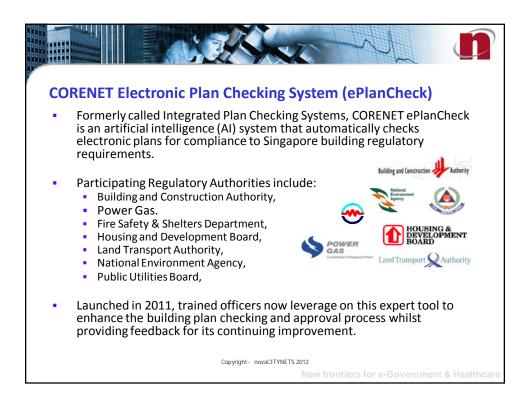


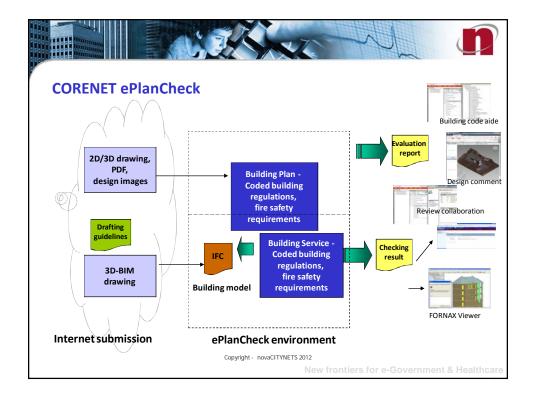














#### **CORENET ePlanCheck**



Building Control, e.g.

- Building Control Regulations (BCR)
  - Protection from falling with railing or parapet wall



- Requirements for staircase and ramp dimensions and constructions
- Requirements for natural lighting and ventilation



- Energy conservation calculation by building envelope
- Barrier Free Access (BFA)



- Accessibility through lift
- Accessibility through ramp
- Accessible route



Clearway for handicap access

Copyright - novaCITYNETS 2012

New frontiers for e-Government & Healthcare





#### **CORENET ePlanCheck**

Fire Safety, e.g.



- General Requirements
  - Minimum dimensions for Fire fighting lobby, Smoke stop lobby, etc.
- · Means of Escape



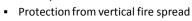
- Travel distance requirements
- Exit requirements
- Fire resistance for staircase, passageway



- Smoke free approach
- Specific requirements for hospital, hotels, dormitories, halls, places of assembly



- Structural Fire Precautions
  - Compartment dimensions like floor area, cubicle extent, height, etc.
  - Separation of purpose groups, halls, kitchen, workshop/factory, high-risk rooms, residential

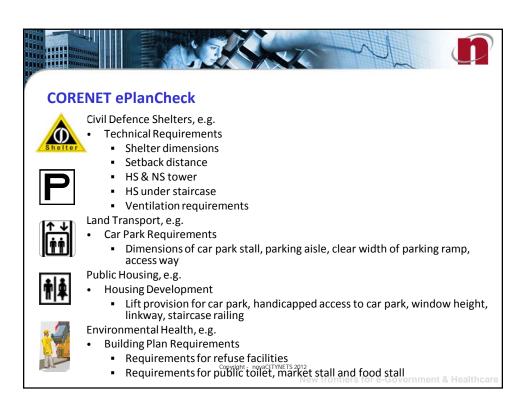


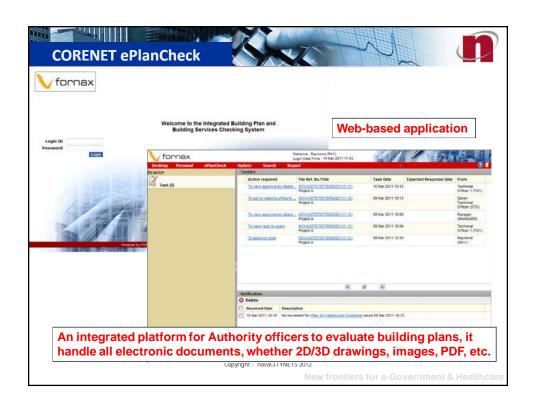
- Fire resistance requirements
- Ventilation requirements novaCITYNETS 2012

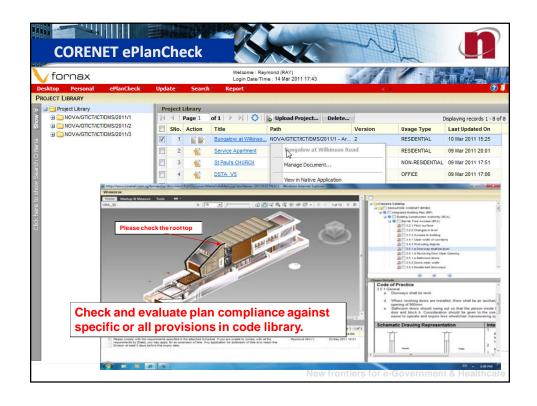
New frontiers for e-Government & Healthcar

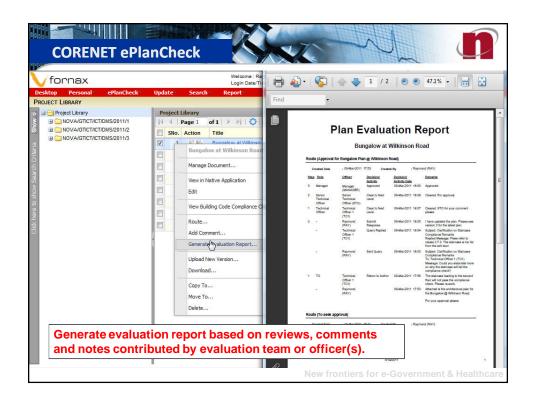


















### E-Government (Real Estate & Construction) Outside Singapore

#### Malaysia's Government City ..... Putrajaya

 Vision of transforming Oil Palm Plantations and Natural Vegetation a 4,900 Ha Intelligent Garden City in 10 years.



The Putrajaya Authority of Malaysia embarked on Integrated City Management (SUMBER-PUTRA) in 1998:

- e-Submission & e-Information
- e-Processing & Approval
  - Development Planning
  - Development Control
  - Land Management
  - Building Control
  - Property Register & Valuation
  - Planning Permission Expert

Copyright - novaCITYNETS 2012

New frontiers for e-Government & Healthcare



## E-Government (Real Estate & Construction) Outside Singapore

Malaysia's Government City ..... Putrajaya

Impact on Putrajaya through ICT-enabled automation and processing management

Duration		Saving
Manual	Sumber-Putra	1
12 weeks	4 weeks	67%
6 weeks	2 weeks	67%
8 weeks	3 weeks	63%
4 weeks	3 weeks	25%
12 weeks	6 weeks	50%
	Manual 12 weeks 6 weeks 8 weeks 4 weeks	ManualSumber-Putra12 weeks4 weeks6 weeks2 weeks8 weeks3 weeks4 weeks3 weeks

Up to 2/3 reduction in actual activity time with direct contribution to Procedure Time, one of the major "Dealing with Construction Permits" Indicators, with potential savings in Procedure Cost, another DCP Indicator.

Copyright - novaCITYNETS 2012

New frontiers for e-Government & Healthcare

