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PKI in eGovernment

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Presentation Content

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- PKI and Government
- Considerations
- National Initiatives
- Challenges Ahead
- The Model for the Future ?
- Summary

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PKI & Government

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- Provides Authentication Framework
 - ◆ National ID & Business Credentials
 - ◆ Trust `Model
- Internal Government Services
 - ◆ Secure Workflow
 - ◆ Administrative Efficiencies
- eGovernment Services
 - ◆ Faster, Easier Access to Services
 - ✿ Tax
 - ✿ Social Welfare
 - ✿ Health
 - ✿ Supply Chain Management
 - ✿ Trading and Customs
 - ◆ Kiosk Services (ESD)
 - ✿ Common Services
 - ✿ Personal Credentials



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Considerations

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- Must be Good for:
 - ◆ Government
 - ◆ People
 - ◆ Business
 - ◆ International Trade
- Sets Low Water Mark
- Recognises Heterogenous Environments
- Should Encourage Take-up
 - ◆ Flexibility
 - ◆ Trusted Technology
 - ◆ Legal Protection
 - ◆ Ease of Use
 - ◆ Low Cost of Entry

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Good for Government ?

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- Standard Policies and P.O.I.
- Generic Certificate Content and Attributes
 - ◆ Single Directory ?
- Efficiency & Ease of Use
- Inherent Value of Signature
- Streamline Identity Services
 - ◆ Police and Internal Security
 - ◆ Elections
 - ◆ Other

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Good for People ?

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- Privacy
- Single Certificate for Everything
- Access to Information
- Awareness and Understanding
- Easier than Paper
- Free

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Good for Business & International Trade ?

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- Legal Framework
 - ◆ Digital Signature = Physical Signature
 - ◆ Defined Terms & Conditions
- More Cost Effective than Paper
- Harmonisation of International Standards
- Saves or Makes Money

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Different Strategies [1]

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- China, Korea, Utah and Others
 - ◆ National and/or Proprietary Policy
- National Root
- Technology Specific
- Highly Controlled Paradigm
 - ◆ Liability Cap
 - ◆ High Cost to Entry

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Different Strategies [2]

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- Singapore, Hong Kong, Germany
 - ◆ Technology Neutral
- Technology Control Point
 - ◆ Singapore: CCA
 - ◆ Hong Kong: CARO
- Many CA's and Trust Models

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Different Strategies [3]

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- Australia
 - ◆ Law is Technology Neutral
- Electronic Authentication Law
 - ◆ Digital = Physical
 - ◆ Provided it has been agreed

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The Australian Experience

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- Gatekeeper Accreditation
 - ◆ Necessary for Government
 - ◆ Mandates “Trusted Technology”
 - ◆ Articulates Minimum Requirements
 - ⚙ Key Size and Source
 - ⚙ Algorithms
 - ⚙ Secure Facility

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Australia - Interested Parties

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- Attorney General
 - ◆ Legal Policy
- Office of Government On-line
 - ◆ eGovernment Services
- National Office for Information Economy
 - ◆ PKI Policy
- National Computer Security Advisory Authority
 - ◆ Accreditation
- National Electronic Authentication Council
 - ◆ Advisory



The Ideal Model ?

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- Consider Two Certificates
 - ◆ Identity
 - ✿ Anonymous/Pseudonymous Certificates ?
 - ◆ Attributes
- No Reliance Limits in ID Certificates
- Easy and Affordable
 - ◆ Technology Agnostic
- Unobtrusive



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Challenges Ahead

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- Digital Signature Law
- Privacy Legislation
- Licensing of CA's
- Maturity of Technology
- One Size Fits All

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Summary

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- PKI is Only an Enabler
 - ◆ The Oil in the Engine
- Learn from Other Countries
- Keep an Open, Flexible Perspective
- Seek Advice !

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Ask Me Some Questions

