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Deployment of Large Scale Digital ID Systems
Progress and Issues

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Deployment of Large Scale Digital ID Systems

- Current Status
- Regional Developments
- Pilots & Deployments Overview
- Deployment Issues
- Obstacles/Opportunities

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Current Status

- 100+ countries have National ID Programs but Digital ID adoption is slow

- Several high profile programs have stalled or been abandoned

- 911 has revived political will

- Progress differs across regions

- Privacy and Civil Liberty issues depend on political/cultural factors

Regional Differences

- ## North America
  - Threat of "Big Brother", Privacy & Civil Liberties issues loom large, voluntary is key
- ## South America
  - Mandatory participation to fight fraud
- ## Europe
  - Privacy, Little Brother, culture supports programs
- ## Middle East & Africa
  - Mandatory participation to fight fraud, rapid adoption
- ## Asia
  - Aggressive pursuit in many nations, culture supports programs, mandatory & voluntary, rapid adoption

National IDs

Country	Issuing Agency	Status	Enrollment
Argentina	Immigration	Deferred - technology, cost	46 M
Belgium	Ministry for Civil Service and Modernization of Public Administration	Test Planned, 10 M in 5 years	10-15 city test, 10 M by' 05
Botswana	Dept. of Labor and Home Affairs	Rolling Out	1 M
Brunei	Dept. of Immigration & Nat. Registration	Deployed in '00	400,000
Cambodia	Cambodian Government	Deployed	8 M
China	Ministry of Public Security	Testing	1.3 B
Colombia	National Registry Office	Deployed	2.5 M
Estonia	Citizenship Ministry Board	Rolling-out	1.3 M
Finland	Population Register Center	Deployed - **voluntary**	15,000 now, 5 M total
Hong Kong	Hong Kong Special Admin. Region	Rolling-out - '03 to '07	6.8 M, 1.2 M in '03
Italy	Ministry Interior	Rolling-out, 1 M in '02	100,000 now, 50M total
Japan	Ministry of General Affairs	Testing - **voluntary**	1.2M initial, 10-50 M potential
Macao	Macao Special Administrative Region	Placed Order	540,000
Malaysia	National Registration Department	1 M '01, 2.5 M '02, 22 M by '07	22 M
South Africa	Dept. of Home Affairs	Planned - roll out in '03	30 M
Sweden	Sweden Post & Private Organizations	Deploying - **voluntary**	40,000, 150,000 expected
Thailand	Ministry of Information	Rolling-out	15 M of 40 M
Yemen	Ministry of Interior	Began '00, complete by '05-'08	5-9 M

Other ID Programs

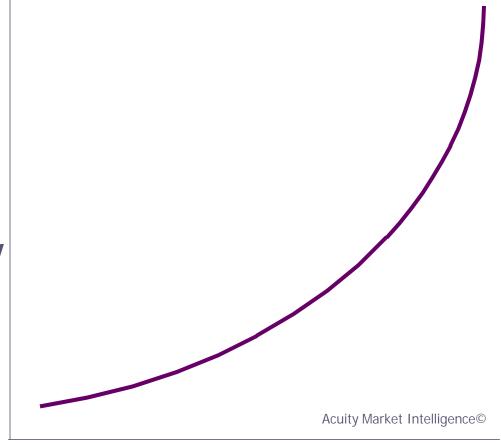| Country	Program	Issuing Agency	Status	Enrollment
Australia	Passport	Department of Foreign Affairs & Trade Files	Trial budgeted - to evaluate duplicate issuance	20M
Canada	Public Services	Ontario Province - Government Management Board of Cabinet	Cancelled, passed onto Ministry of Health	10 M
Jamaica	Voter Registration	Electoral Office of Jamaica	Deployed	1M
Mexico	Voter Registration	Federal Electoral Institute	Deployed	55 M
Namibia	Welfare Payments	Ministry of Health & Social Services	Deployed	120,000
Netherlands	Asylum Seekers	Ministry of Justice	Deployed	600,000
Netherlands	Employee ID	Ministry of Justice	Rolling-out	15,000
Netherlands	IDs and Passports	Ministry of Interior and Kingdom	Rolling-out	15 M
Philippines	Social Security	Social Security Authority	Deployed	40 M
Puerto Rico	Voter Registration	Voter Commission	Deployed	2.5 M
Spain	Social Security	Ministry of Labor and Social Affairs	Deployed one region halted	7M
Uganda	Voter Registration	Electoral Commission	Deployed	8M
UK	Asylum Seekers	Home Office	Rolling-out	100,000
UK	National ID,	Home Office	Feasibility Study	59 M
USA	TWIC	DOT – TSA	Planning	12-25 M
USA	Driver's License	New Mexico Dept. of Motor Vehicles	Evaluating	1 M
USA	CAC	Department Of Defense	Rolling-out	initially 4 M, up to 23 M
Zimbabwe	Social Security	National Social Security Authority	deployment began in April '99	40 M

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Deployment Issues

- Enrollment
- User Acceptance
- Privacy/Civil Liberties
- ID Management/ID Theft
- Database Management/Integrity
- Political Will/Cultural Climate
- System Complexity (multi-apps)

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Economies of Scale?
Multi-Application IDs & High Volume Enrollment

System Cost
System
Complexity
Privacy Issues
Time to Deploy

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Functionality/Enrollment

Obstacles/Opportunities

- Economies of Scale

- Privacy Protection

- Legislation

- Big Brother versus Little Brother

- $$$$$$$$$

- Smart Card manufacturing capacity

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