



The Global Market for National eIDs

Market Data and Analysis

C. Maxine Most
Principal
Acuity Market Intelligence

Smart Card Alliance
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About Acuity

Acuity Market Intelligence consistently delivers thought-provoking, hype-free, data-driven insight and analysis

- Founded in 2001 to address nascent biometrics market
- Proven accurate and reliable market analysis
- Focus on Biometrics and Electronic Identity markets
- Latest research: Global and Regional National ID, ePassport and eVisa, and Biometric Industry Reports



November 2011

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Today's Discussion

- Categories of National eIDs
- National eID Adoption
- National eID Revenues
- The *eID Constellation*®
- eID Market Evolution

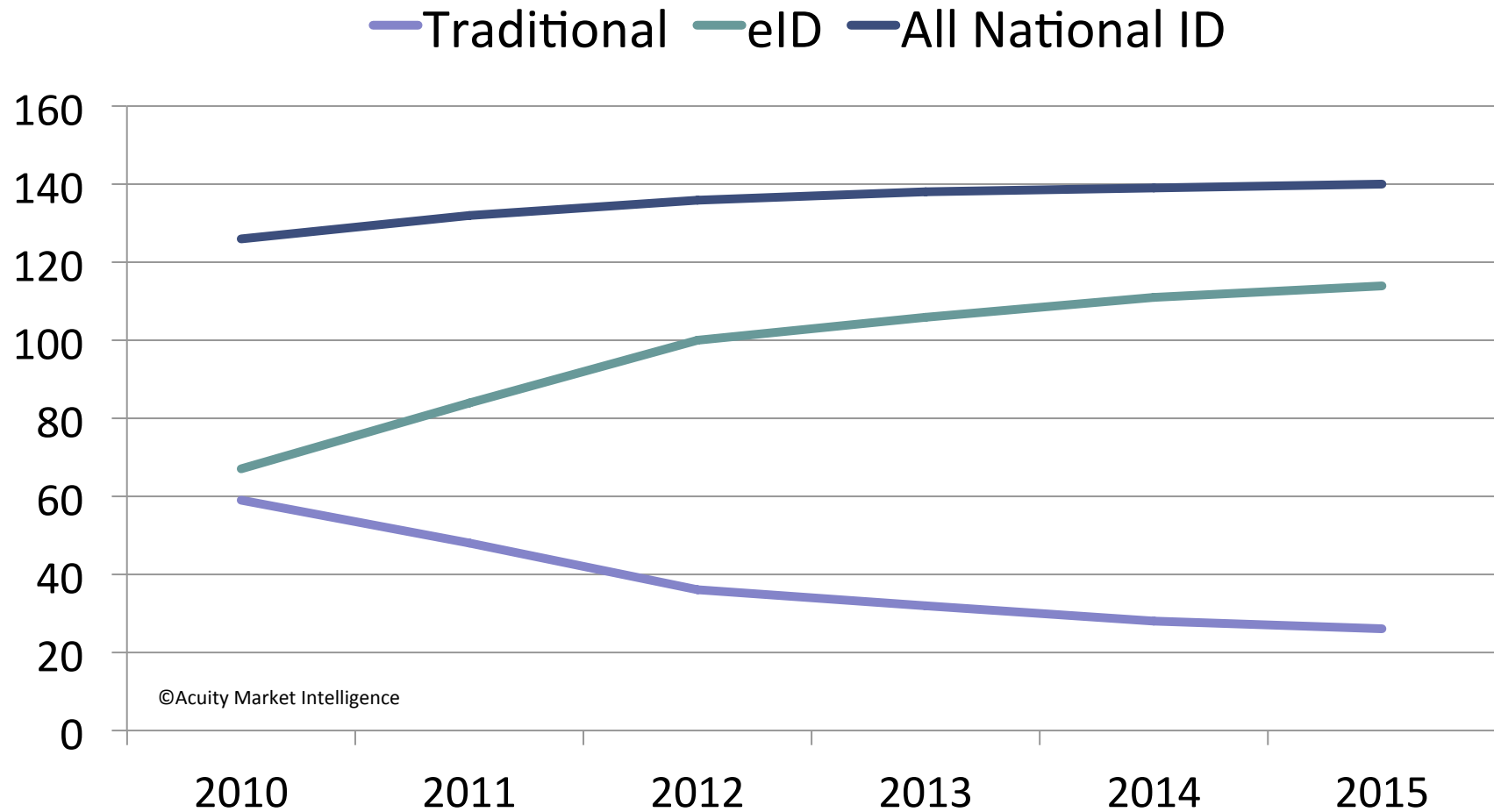
Categories of National eIDs

Category	Description
Category 1: NeID	A chip or optical storage based National ID card with or without biometrics.
Category 2: BN	Traditional or non-chip based National ID card (NID) leveraging biometrics to ensure each cardholder is uniquely identified
Category 3: RO <small>©Acuity Market Intelligence</small>	Biometric Registry Only - A biometric based centralized registry that issues a unique identity number for the enrolled population

Category Adoption National eIDs

NeID Program Type	2010	2011	2012	2013	2014	2015
Category 1: NeID (chip card)	35	50	67	77	82	85
Category 2: BN (NID with Biometrics)	18	23	25	25	25	25
Category 2 to 1: Current BN, Planned NeID	12	8	5	0	0	0
Category 3: RO - Biometric Registry	2	3	3	4	4	4
Total ©Acuity Market Intelligence	67	84	100	106	111	114

Global *National ID* Country Adoption



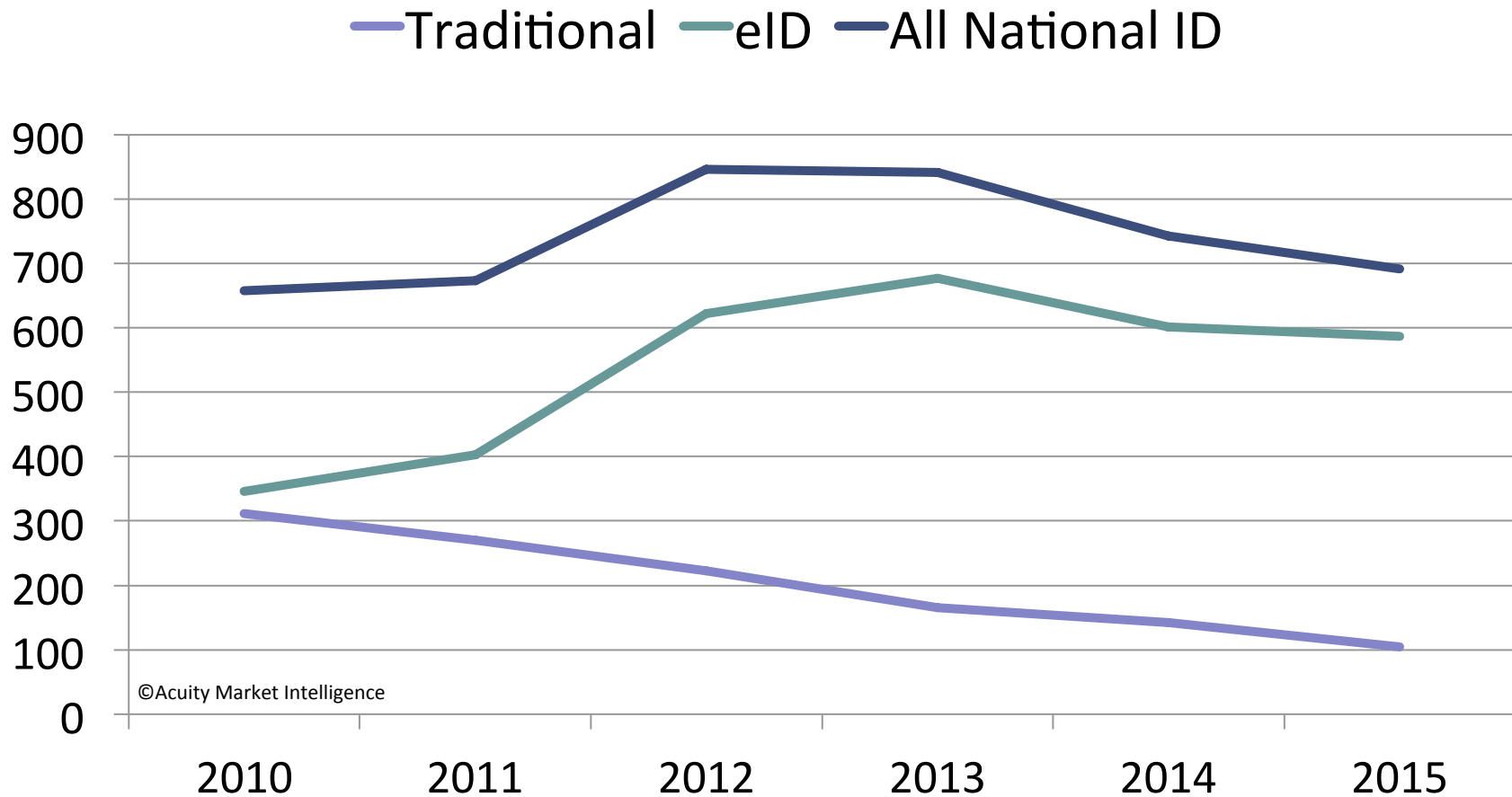
114 Countries Adopt Nat eIDs by 2015

Global number of Countries issuing National ID's						
©Acuity Market Intelligence	2010	2011	2012	2013	2014	2015
Traditional	59	48	36	32	28	26
<i>Share of total</i>	<i>47%</i>	<i>36%</i>	<i>26%</i>	<i>23%</i>	<i>20%</i>	<i>19%</i>
eID*	67	84	100	106	111	114
<i>Share of total</i>	<i>53%</i>	<i>64%</i>	<i>74%</i>	<i>77%</i>	<i>80%</i>	<i>81%</i>
Total	126	132	136	138	139	140

eID's Increasingly Dominate National ID Market Share

*includes India

Global *National ID* Volume (millions)



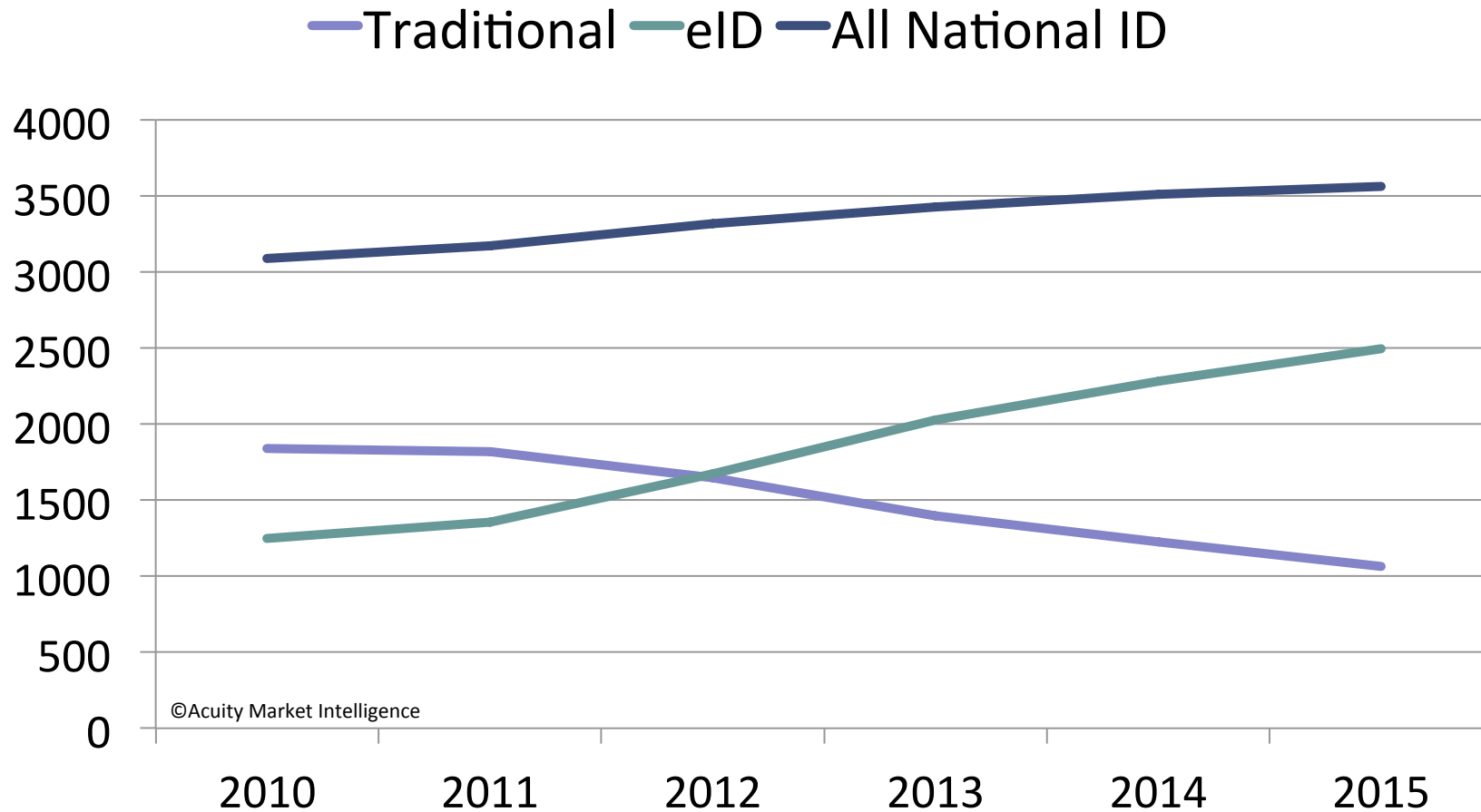
85% of Nat IDs Issued are eIDs by 2015

Global volume of annually issued National ID's (millions)						
©Acuity Market Intelligence	2010	2011	2012	2013	2014	2015
Traditional	312	271	223	165	142	105
<i>Share of total</i>	<i>47%</i>	<i>40%</i>	<i>26%</i>	<i>20%</i>	<i>19%</i>	<i>15%</i>
eID*	346	403	622	677	601	586
<i>Share of total</i>	<i>53%</i>	<i>60%</i>	<i>74%</i>	<i>80%</i>	<i>81%</i>	<i>85%</i>
Total	658	673	846	842	743	691

Chinese eID volume share drops from 83% to 50%

***does not include India**

Global *National ID* Circulation (millions)



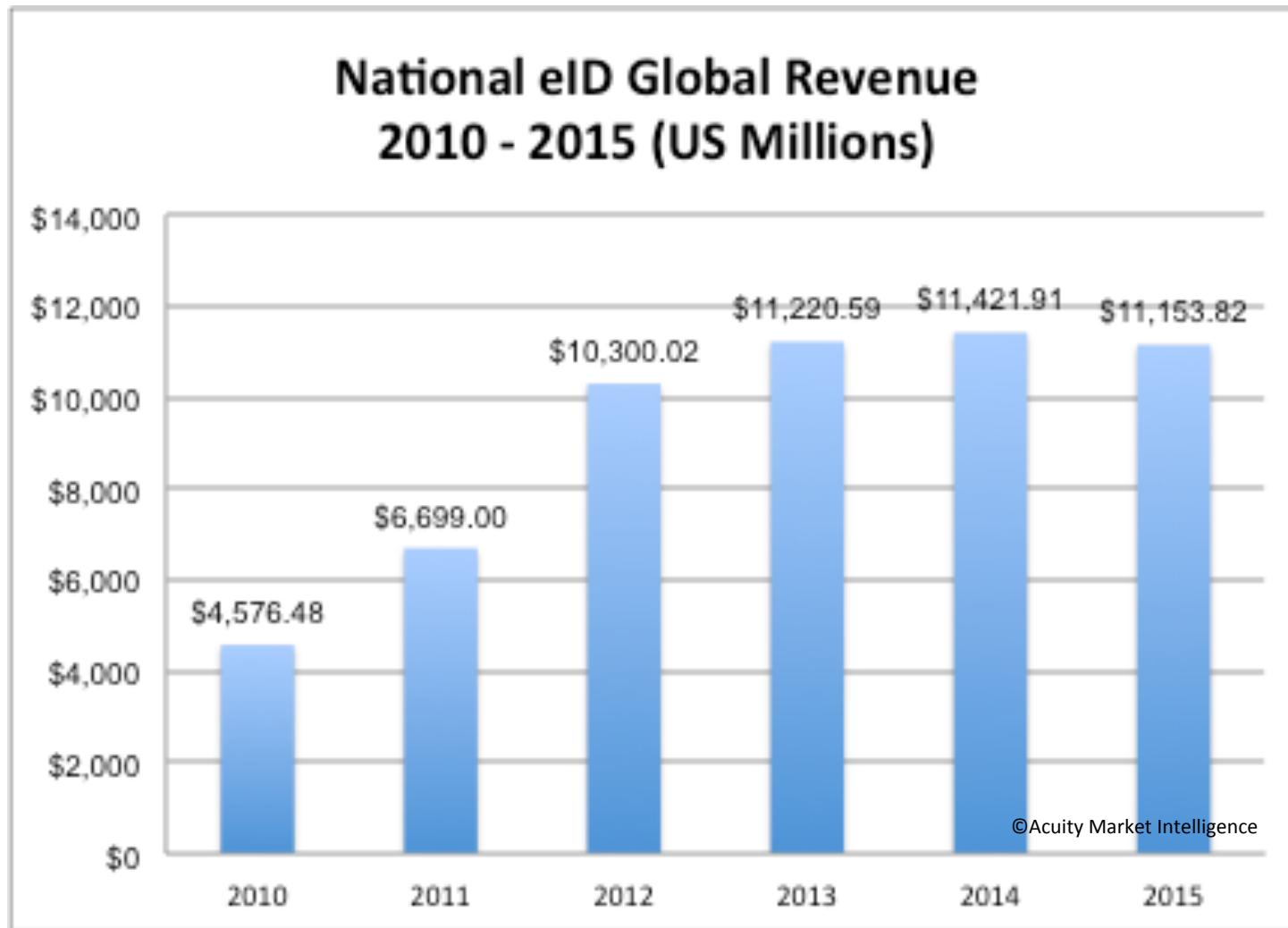
70% of Nat ID Circulation are eIDs by 2015

Global volume of annually issued National ID's (millions)						
©Acuity Market Intelligence	2010	2011	2012	2013	2014	2015
Traditional	1839	1821	1645	1398	1227	1064
<i>Share of total</i>	<i>60%</i>	<i>57%</i>	<i>50%</i>	<i>41%</i>	<i>35%</i>	<i>30%</i>
eID*	1248	1354	1674	2028	2284	2498
<i>Share of total</i>	<i>40%</i>	<i>43%</i>	<i>50%</i>	<i>59%</i>	<i>65%</i>	<i>70%</i>
Total	3088	3175	3319	3426	3511	3563

More than 1/3 of world's population has an eID in 2015

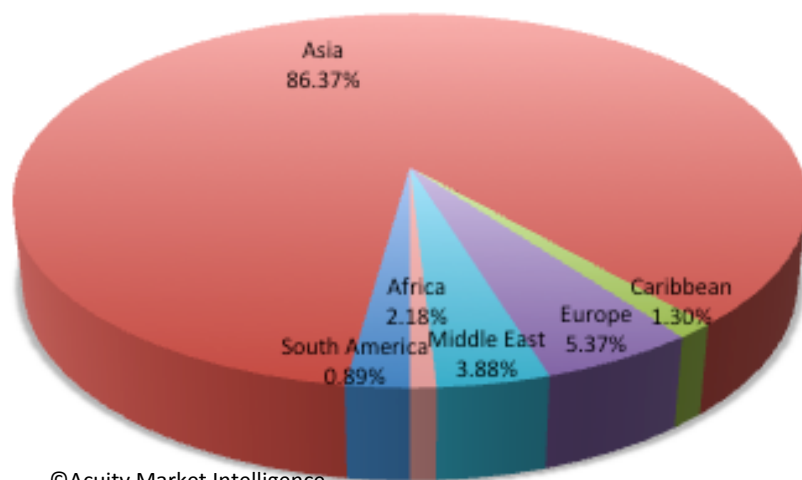
***does not include India**

Global *National eID Program* Revenue



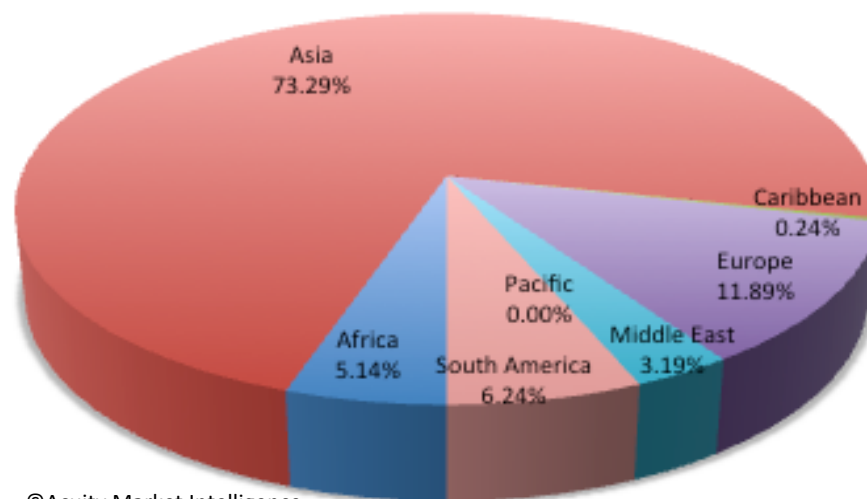
Regional Market Share eIDs

**National eID Card Volume Regional Share
2010**



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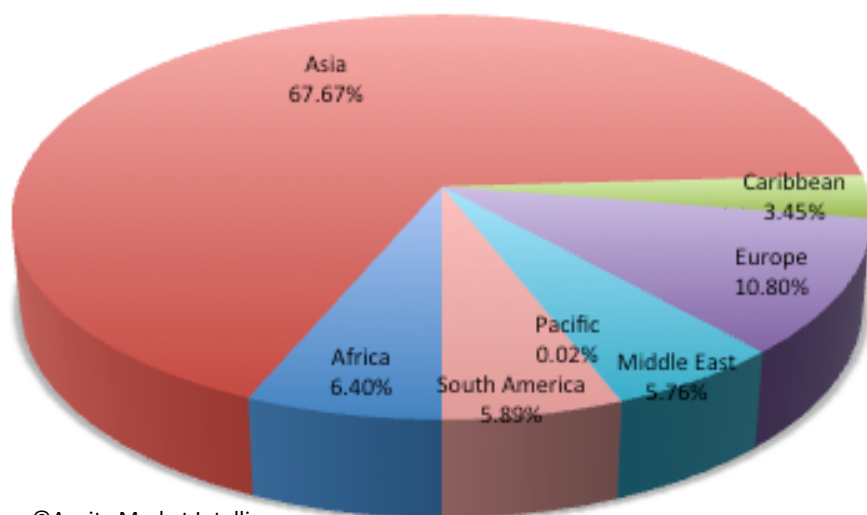
**National eID Card Volume Regional Share
2015**



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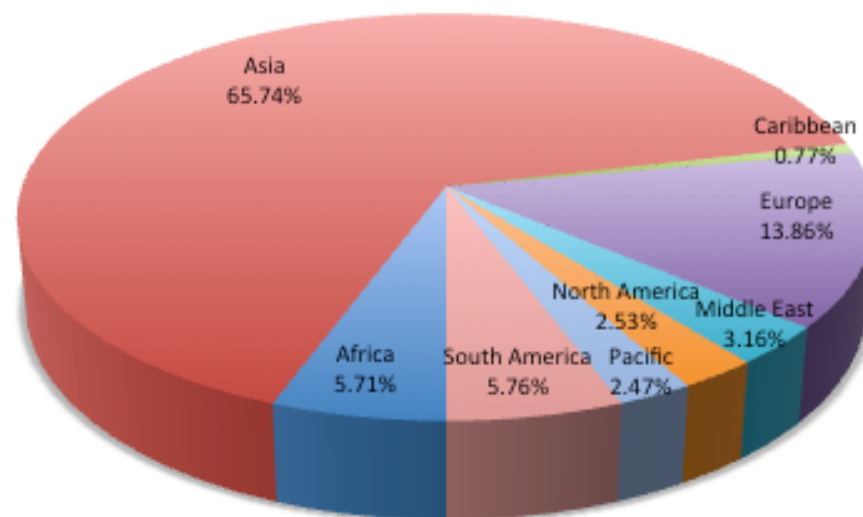
Regional eID Program Revenue Share

National eID Regional Revenue Share 2010



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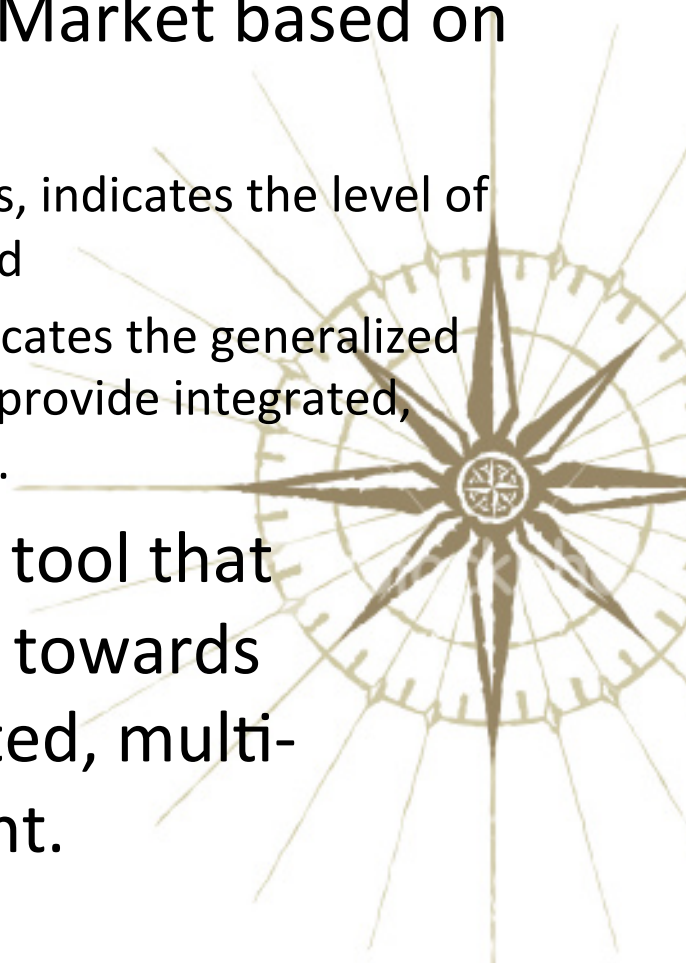
National eID Regional Revenue Share 2015



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The *eID Constellation*®

- A snapshot of the State of the eID Market based on two multi-faceted indices:
 - The eID Evolution Index®, along on the X-axis, indicates the level of eID technology and operational maturity, and
 - The eID Service index®, along the Y-axis, indicates the generalized level of infrastructure capability required to provide integrated, trusted eID related applications and services.
- Produces a quadrant-based, visual tool that characterizes the relative progress towards providing a trusted, highly integrated, multi-application eID service environment.



National *eID Evolution Index*

Acuity proprietary index indicating the technology and operational maturity Phase

Phase	Description	©Acuity Market Intelligence
1	No functioning Registry, or Non-digital Registry	
2	Digital Registry, No National ID, Multiple Autonomous card programs	
3	Digital Registry, Traditional National ID, No or Multiple Autonomous card programs	
4	Digital Registry, eID, Multiple Autonomous card programs	
5	Digital Registry, Multi-functional eID	
6	Single identifier, Multiple programs	

National *eID Service Index*

A composite index based on a number of established global metrics combined with Acuity proprietary eID specific indicators

Indices

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Global Competitiveness

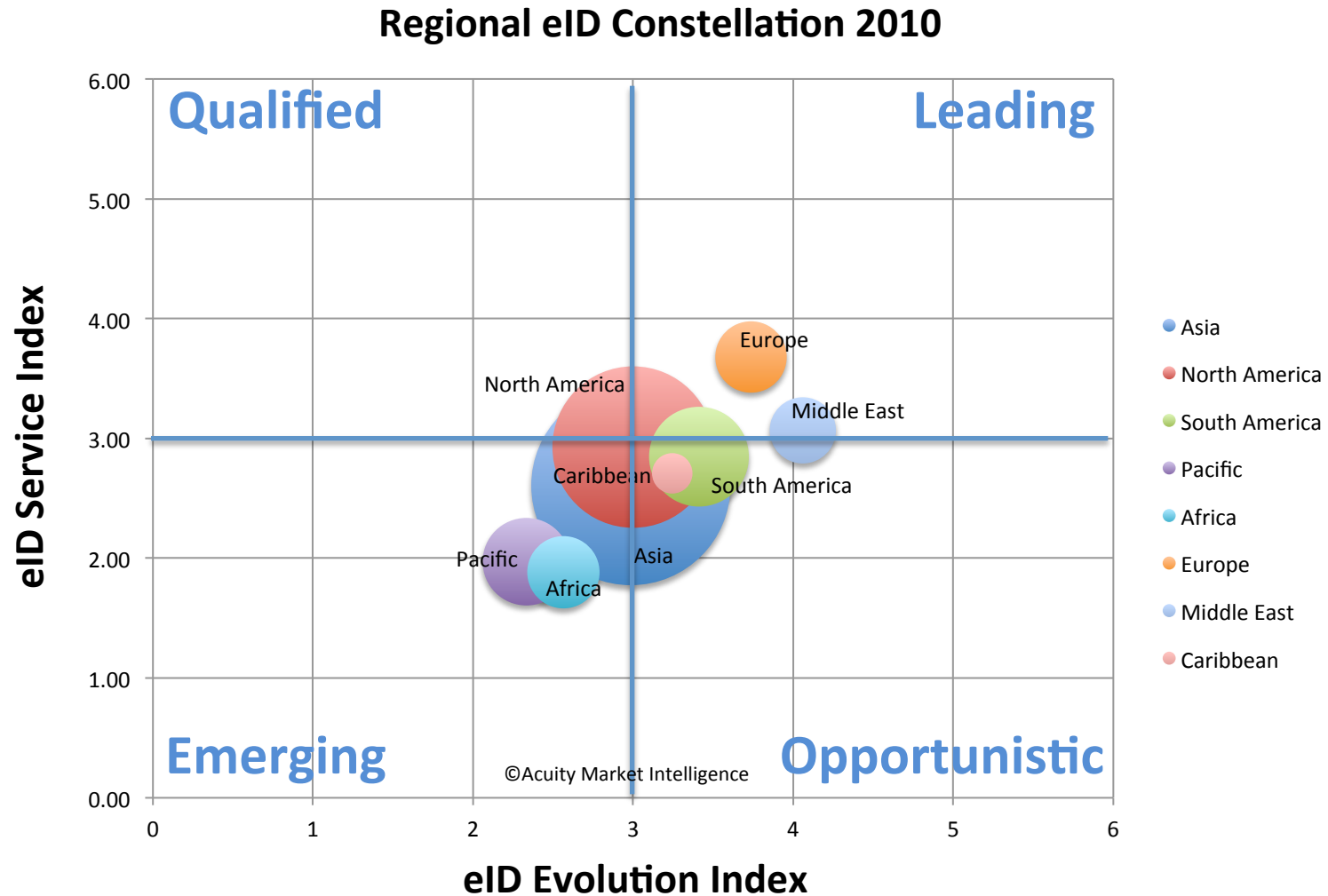
Political Stability

Financial Resources

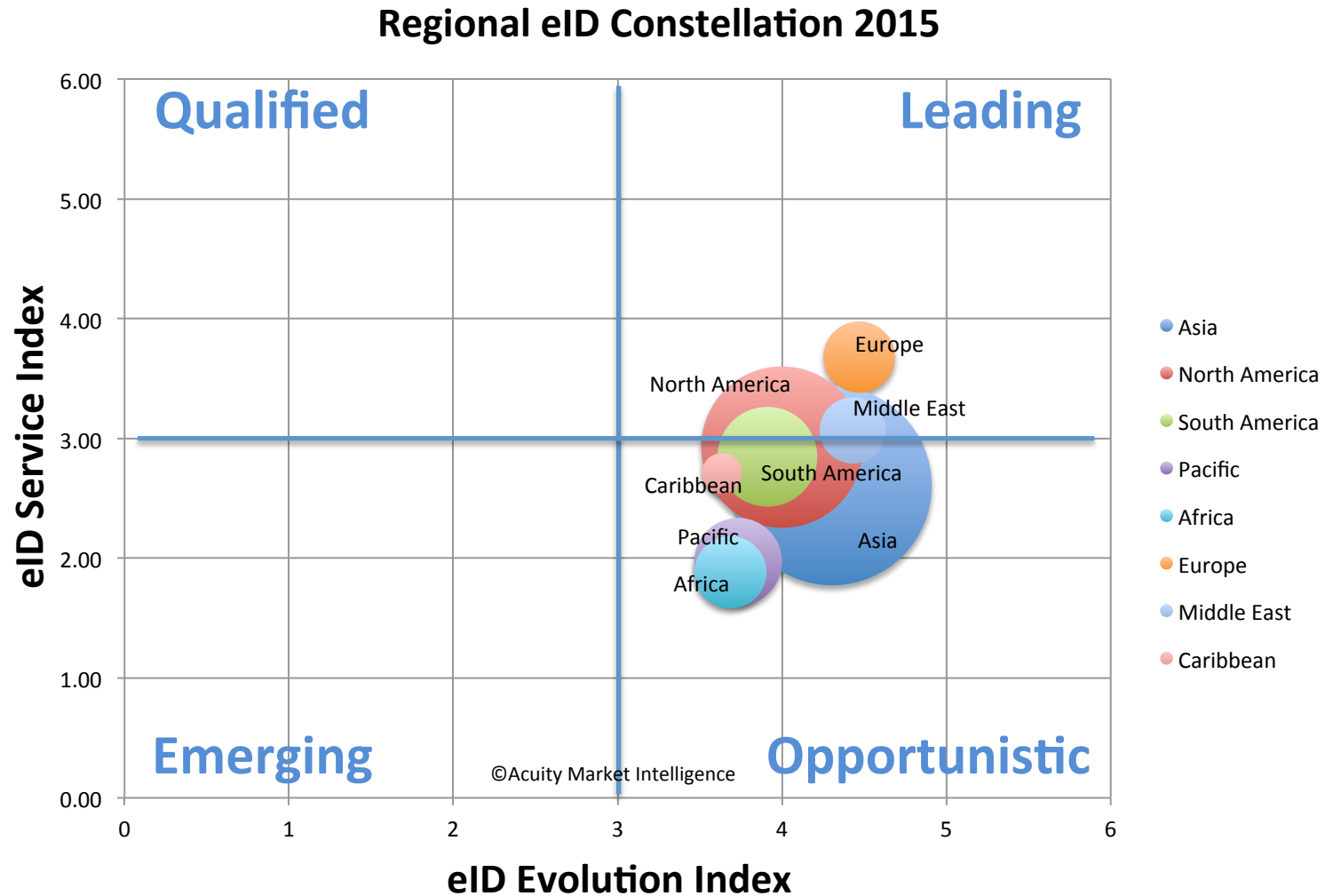
Mobile Phone Usage

eID Service Readiness

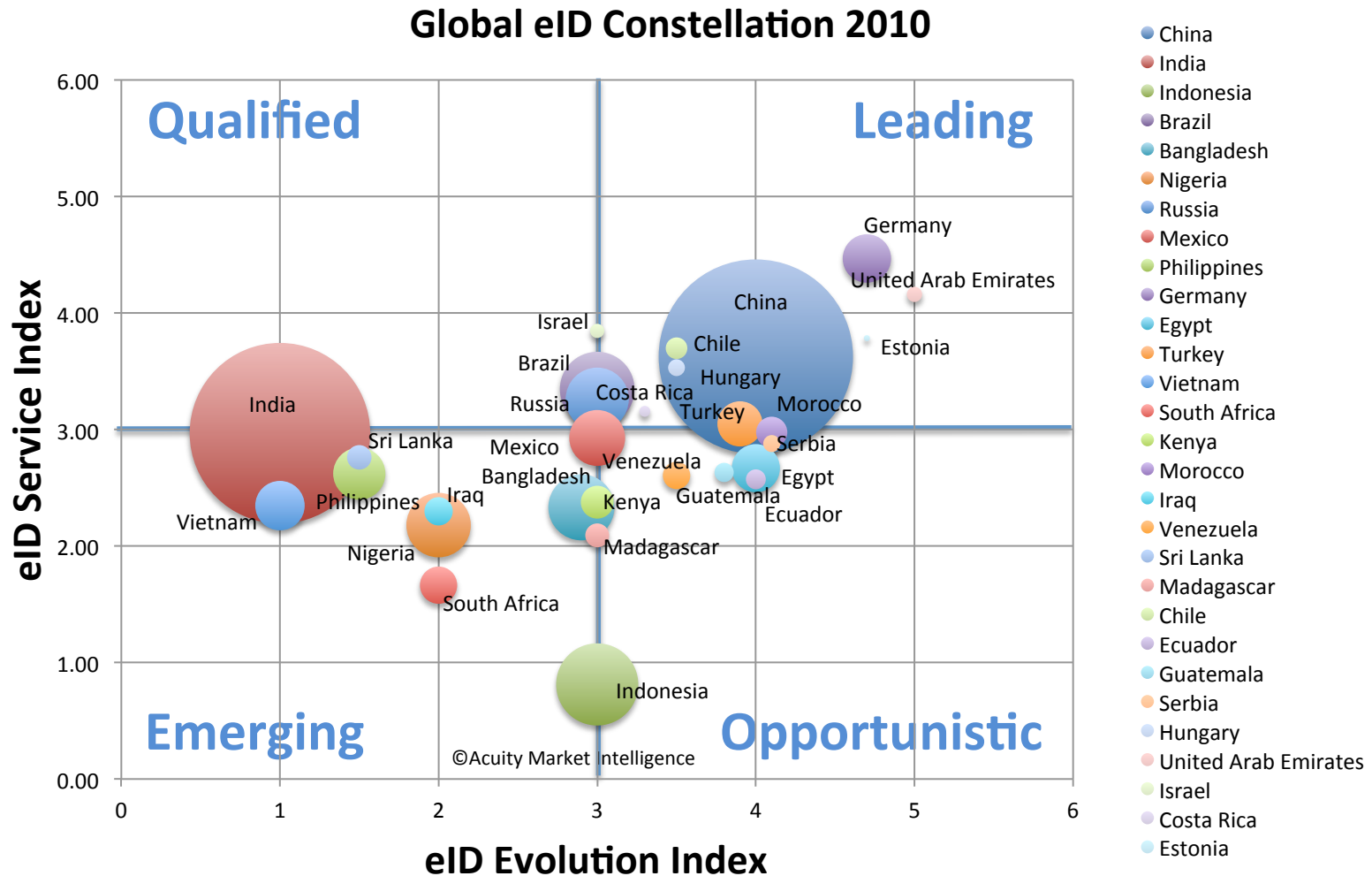
eID Constellation: Regional NeIDs 2010



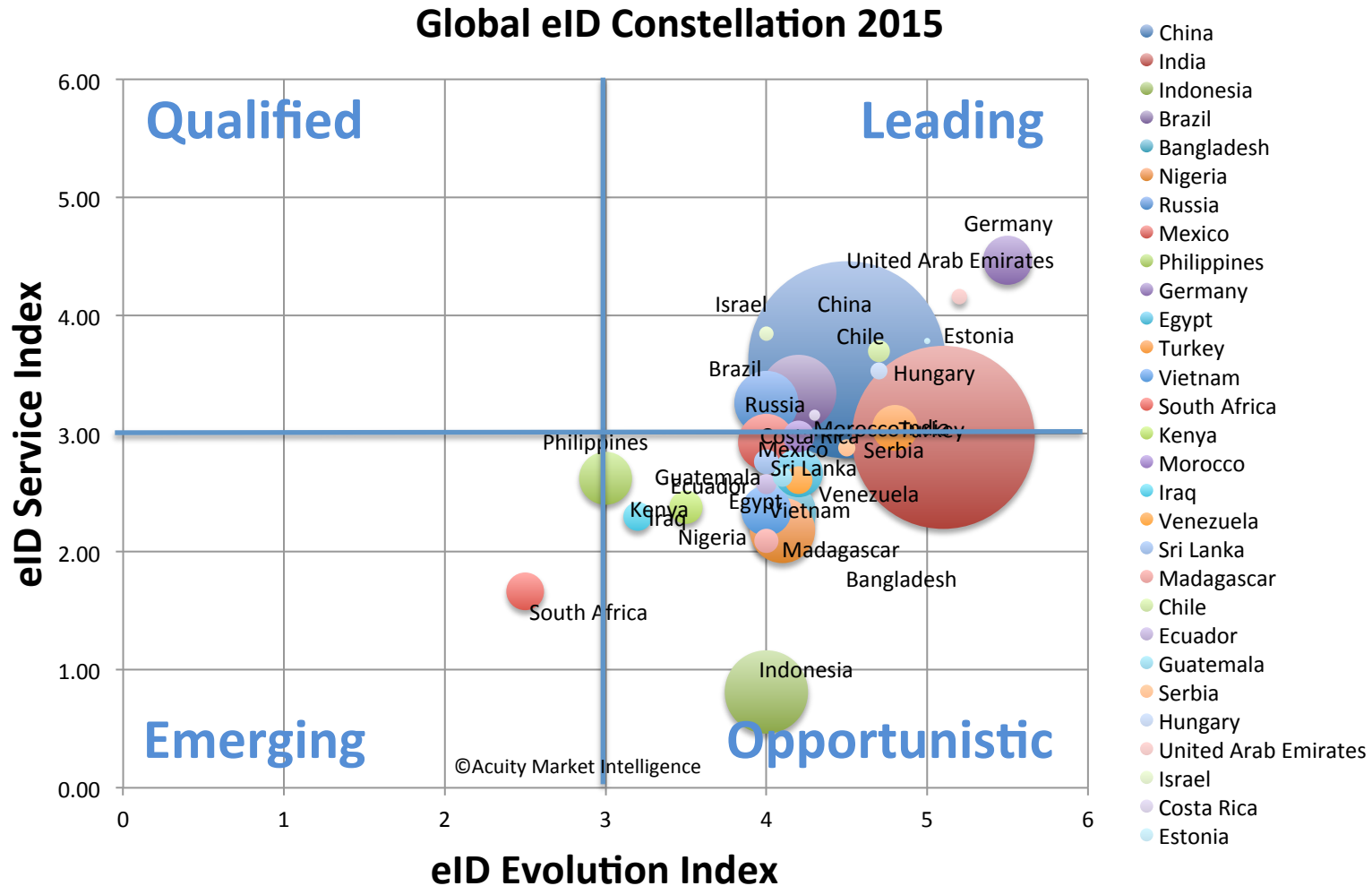
eID Constellation: Regional NeIDs 2015



eID Constellation: Select NeIDs 2010



eID Constellation: Select NeIDs 2015

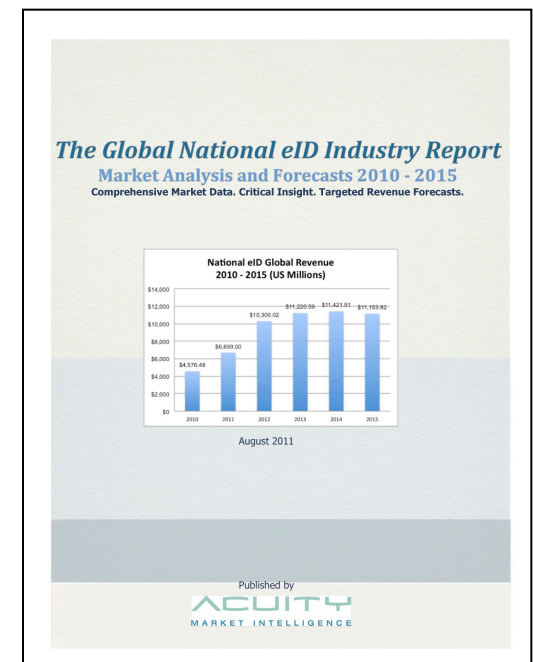


Market Development

- Opportunities
 - Domestic or International body support of: Fair Elections, Aid distribution, Fraud Prevention, Financial Reforms
 - Opportunities in Enrolment, Credentialing, Authentication, Integration based on current phase of eID evolution and defined upgrade cycles
 - Internal and Regional leverage of eIDs and eID Infrastructure
 - eID Facilitation of Service Based Business Models
- Obstacles
 - Unfunded or Underfunded “Pet” programs
 - “Show” programs
 - Unanticipated costs due to inadequate infrastructure
 - Ownership Conflicts and Silo Confrontation
 - Public Security, Privacy, Civil Liberties Concerns

Global National ID Industry Report

- Quantifies Current Market and Global Opportunities
 - Characterizes eID Program for 114 current or planned eID Issuing Countries: Biometrics, Chip Cards, Registry Only
 - eID Volume and Program Revenue
 - Cards, Biometrics, and Reader Volume and Revenue
- Market Development
- Enables Comparative Analysis
 - Globally, Regionally, and By Country
 - Constellation





Thank you !

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For more market analysis and to preview

The National eID Industry Report

The Asia Pacific ePassport and eVisa Industry Report

The Global ePassport and eVisa Industry Report

The Future of Biometrics

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C. Maxine Most
+1 303 449 1897
cmaxmost@acuity-mi.com