

VERIDOS

IDENTITY SOLUTIONS

by Giesecke & Devrient
and Bundesdruckerei

Shaping the Identification Future The African Challenge

Thomas Harenberg

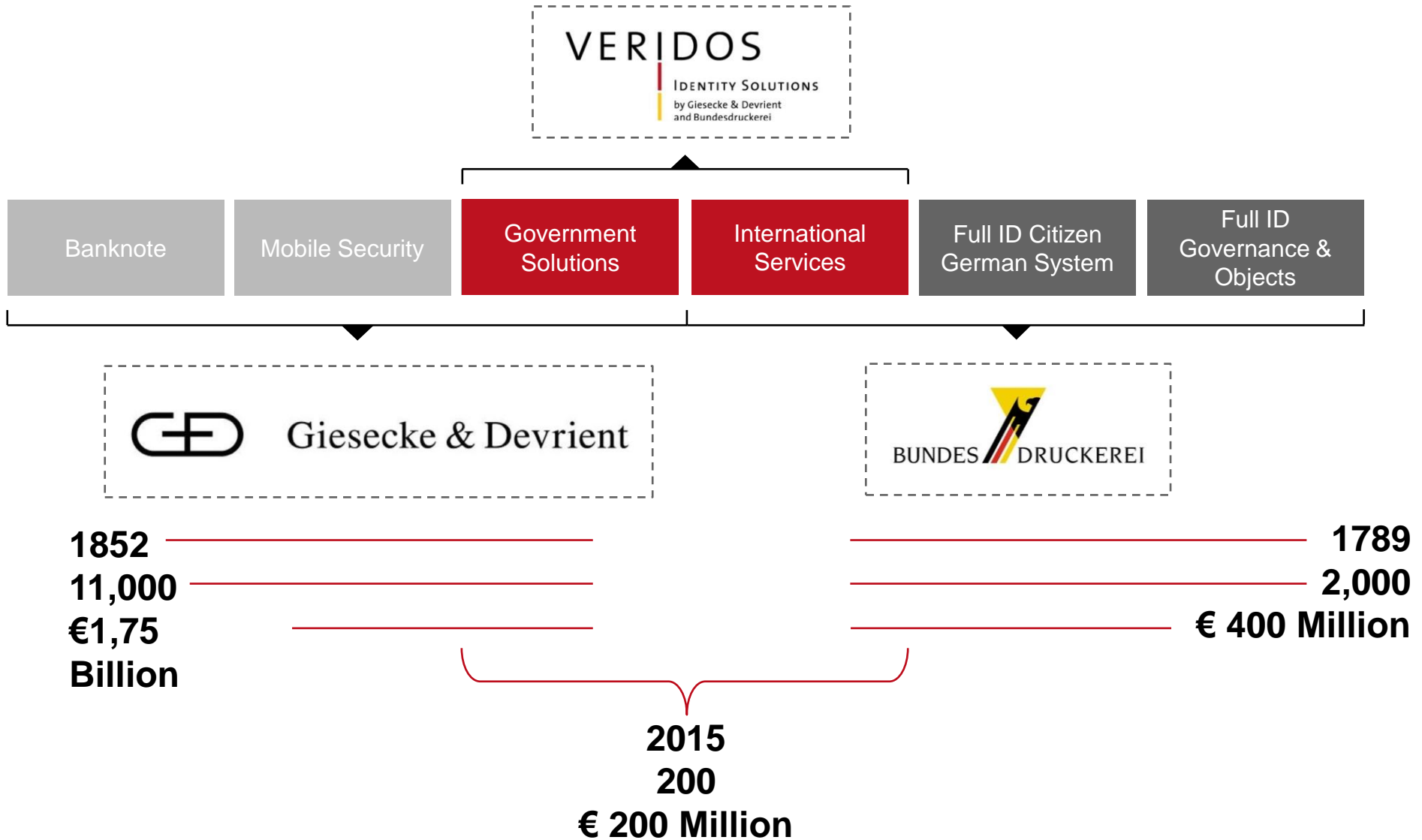
VERIDOS GmbH

<http://www.veridos.com/2/company/>

Agenda

- Introduction to Veridos
- The challenges
- The paradigm shift
- The opportunities
- African perspective for the future
- Key project

Introduction to Veridos



Introduction to Veridos – our Offer

Chip Inlay and OS

StarCOS 3.5 chip inlay and OS components including various software modules and hardware interfaces.

- EP 104: Security Writer Tool
- EP 105: Security Writer Tool
- EP 106: Security Writer Tool
- EP 107: Security Writer Tool
- EP 108: Security Writer Tool
- EP 109: Security Writer Tool
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 EP 150: Security Writer Tool

Card Production

Card production process and equipment including various machines and software tools.

2014

Project Management

Project management diagrams and Gantt charts showing project progress and milestones.

2014

Printing Personal Data

Printing personal data equipment and workflow including various printers and software tools.

Production process: Administration, Report, Quality assurance

Document Life Cycle

Document life cycle process and equipment including various software tools and hardware interfaces.

Policy and Issuing CA
 Certificate Policy
 Issued Certificates
 Firewall Interfaces

Verification Border Control

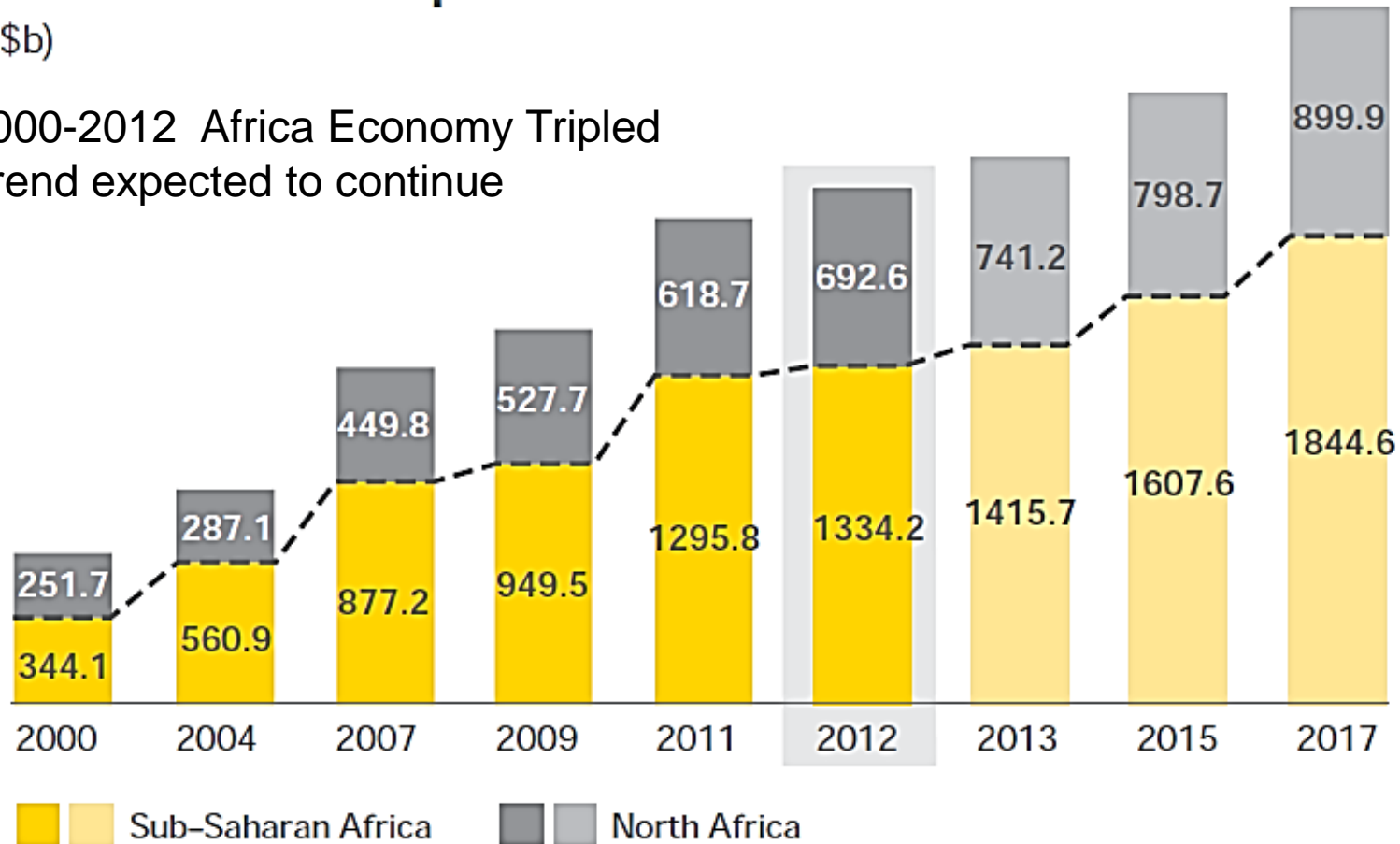
Verification border control equipment and software including various hardware and software tools.

Africa in Numbers

Africa's economic output

(GDP, US\$b)

- 2000-2012 Africa Economy Tripled
- Trend expected to continue



Source: IMF World Economic Outlook Database; EY analysis.

The Challenges

- Per capita Income (PPP) comparison – 2013
 - Oceania USD 31,000
 - Europe USD 29,000
 - The America's USD 27,000
 - Asia USD 9,000
 - Africa USD 3,200
- Source:**
- CIA - The World Factbook
 - Worldbank - World Development Indicators
- How can we transfer growth into wealth
 - Countries with budgets connected to the oil price
 - Real requirements of the private sector to avoid fraud, double identities...
 - The Infrastructure Challenge - Everybody has a mobile but no secure ID Card|
Today almost all African farmer owns mobile phone. In Ethiopia alone 30 Million mobile phones

The Opportunities

Can the trends be converted into Innovative Identification Solutions?

- Should we think Identity token other than cards?
- Could the future African Identification be based on card and mobile phone
- Does a citizen have the incentive to carry or apply for identification card

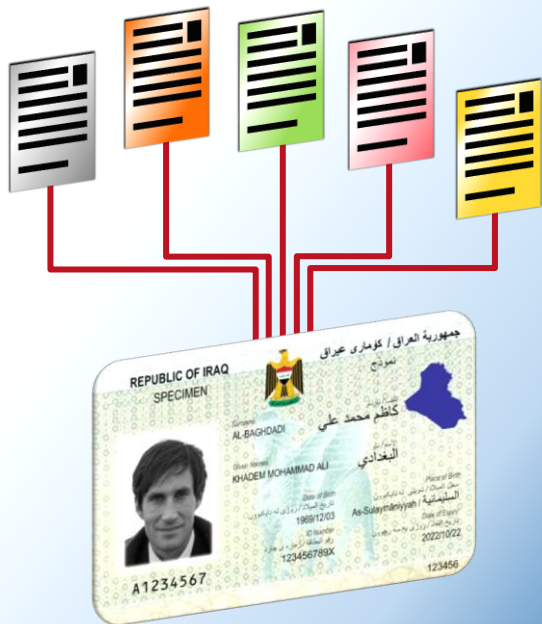
	Card based ID	Mobile based ID
Advantages	<ul style="list-style-type: none"> • Off the shelf technology • Proven world wide • Standards available 	<ul style="list-style-type: none"> • Incentive to own mobile • Ubiquitous availability of mobile network • Secure technologies available
Disadvantages	<ul style="list-style-type: none"> • No incentive for carrying ID card • Not widely distributed 	<ul style="list-style-type: none"> • Requires new standards • Not proven technology

The African Perspective for the Future

- Knowhow-Transfer as one of the key requirements
 - To become partially independent and a real owner
- Financing
 - Current issue – Countries with budgets connected to the oil price
- Mobile telephone based ID solution offers an alternative or complementary
 - Universal availability and the incentive to own mobile phone
 - Mobile network widely available
- Local production
 - To set up a local production in the country
 - Invest into the country
 - To decrease the number of unemployed citizens

The vision of the IRAQI Government

Unified Proof of Identity



Gate opening to transform Public and support Private Services



Turnkey Security leading to a safer Iraq



... and the Strategy to make this vision come true

ENABLER

Know-How Transfer

Training

Support and Helpdesk

BUILDING BLOCKS

National Register
supporting
Biometric
Verification

Country-wide
distribution
of fully-equipped
Offices

Decentralized
Personalization
capability

Utmost secure
National ID Card

FOUNDATION

IT Infrastructure /
Communication

Local production of secure
governmental documents

Thank you for your attention!