

The background features several overlapping, wavy lines in shades of green and yellow, creating a sense of motion and flow.

# **Principles on Identification for Sustainable Development – Towards the Digital Age - World Bank Group Feb 2017**

**EEMA 4 July 2017**

# Panel

---

- Chair

Louise Bennett - Chair Security Community of Expertise and Identity Assurance Working Party BCS

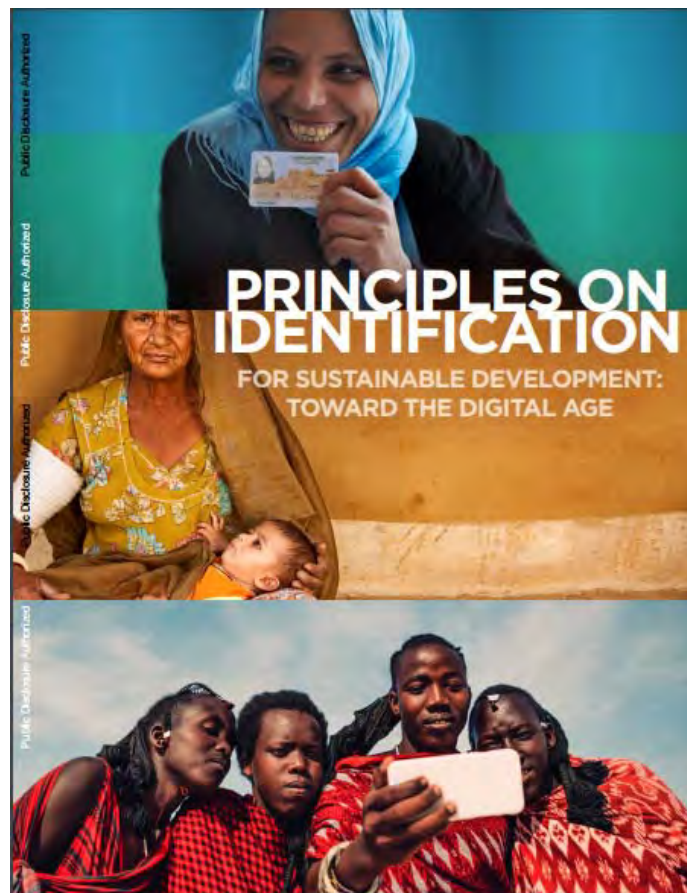
- Panellists

Edgar Whitley – Associate Professor in Information Systems in the Department of Management at the London School of Economics and Political Science

Andrew White – Engineer Deloitte

John Bullard – Global Ambassador Trust Chains

# The Principles



---

# The 10 Principles

---

- Inclusion

1 Universal Coverage. 2 Accessibility

- Design

3 Robust, secure and accurate. 4 Interoperable and responsive. 5 Open Standards and Technology Neutral. 6 privacy by design. 7 Planned for financial and operational sustainability.

- Governance

8 Safeguarding data privacy, security and user rights through a comprehensive legal regulatory framework.

9 Establishing clear institutional mandates and accountability.

10 Enforcing legal and trust frameworks through independent oversight and adjudication of grievances.

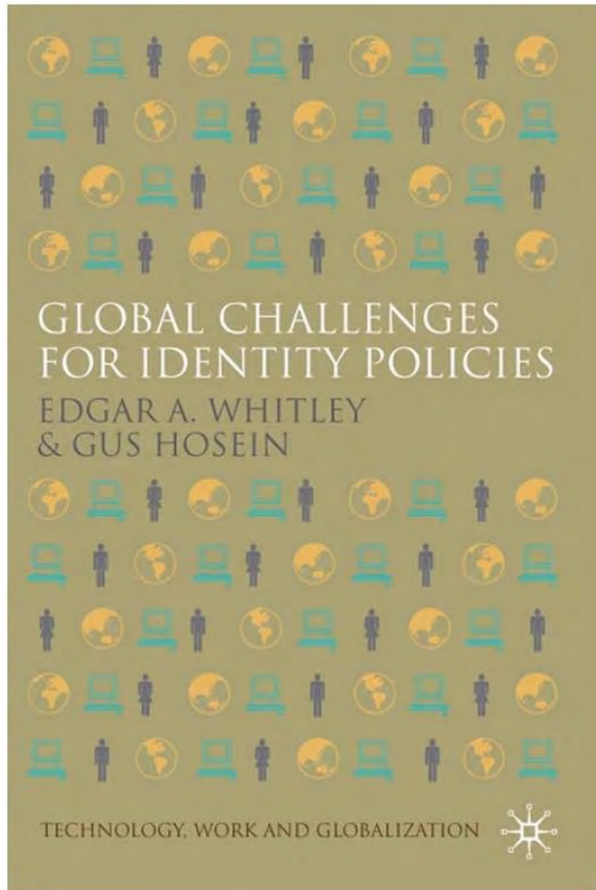


**INFORMATION SYSTEMS  
AND INNOVATION GROUP**  
Department of Management

# Digital identity privacy principles and the context of sustainable development

- **Dr Edgar A. Whitley**
- Department of Management
- London School of Economics and Political Science







Enabling the  
information society

# Sustainable Development Goals (SDG)

## **SDG 16.9**

**“By 2030, provide legal identity for all,  
including birth registration”**



---

## Legal identity

---

- Legal civil status obtained through birth registration and civil identification that recognizes the individual as a subject of law and protection of the state.
  - IADB Civil registration and identification glossary

---

**AN ESTIMATED 1.1 BILLION PEOPLE IN THE WORLD ARE UNABLE TO PROVE THEIR IDENTITY.**

That is 1 in every 6 individuals. The majority live in Africa and Asia, and more than a third are under the age of 18.



**The ID4D Program: Making Everyone Count**

---

## Legally operational identity (LOID)

---

- An identity credential that can be used for operational purposes such as to open a bank account, receive cash transfers, inherit property etc.
  
- Physical card or digital credential?

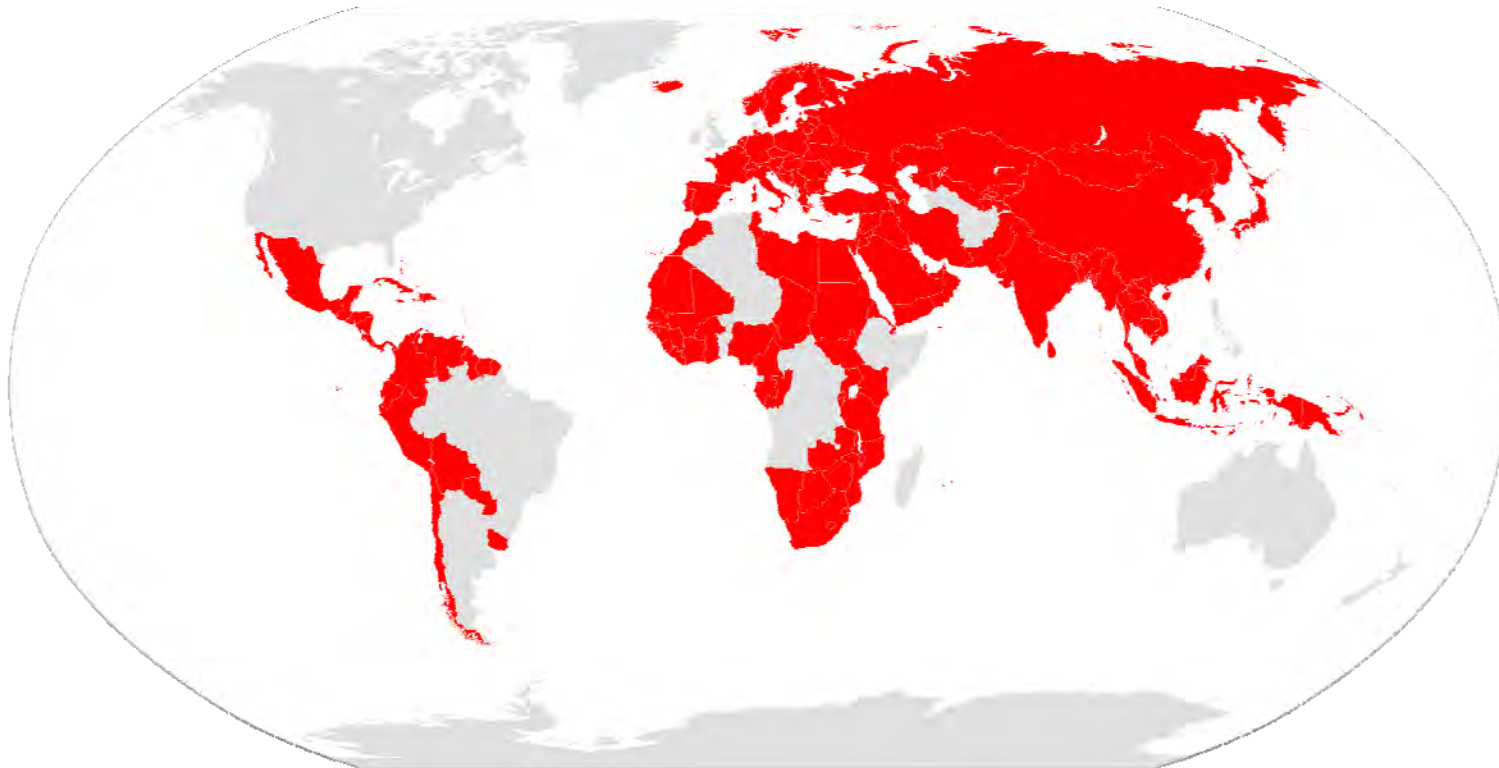


Enabling the  
information society

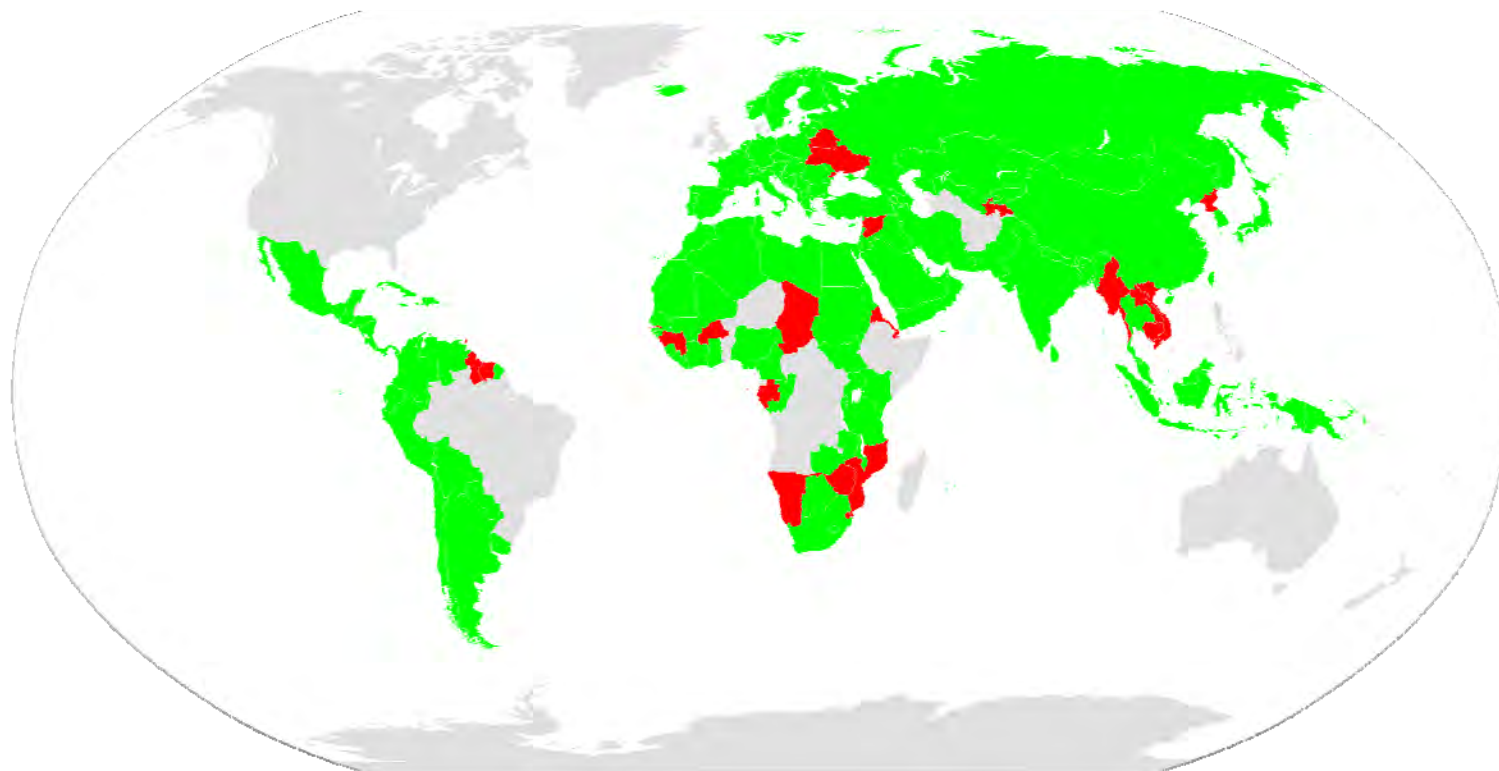
# **Current state of eID**

(World Bank Data June 2017)

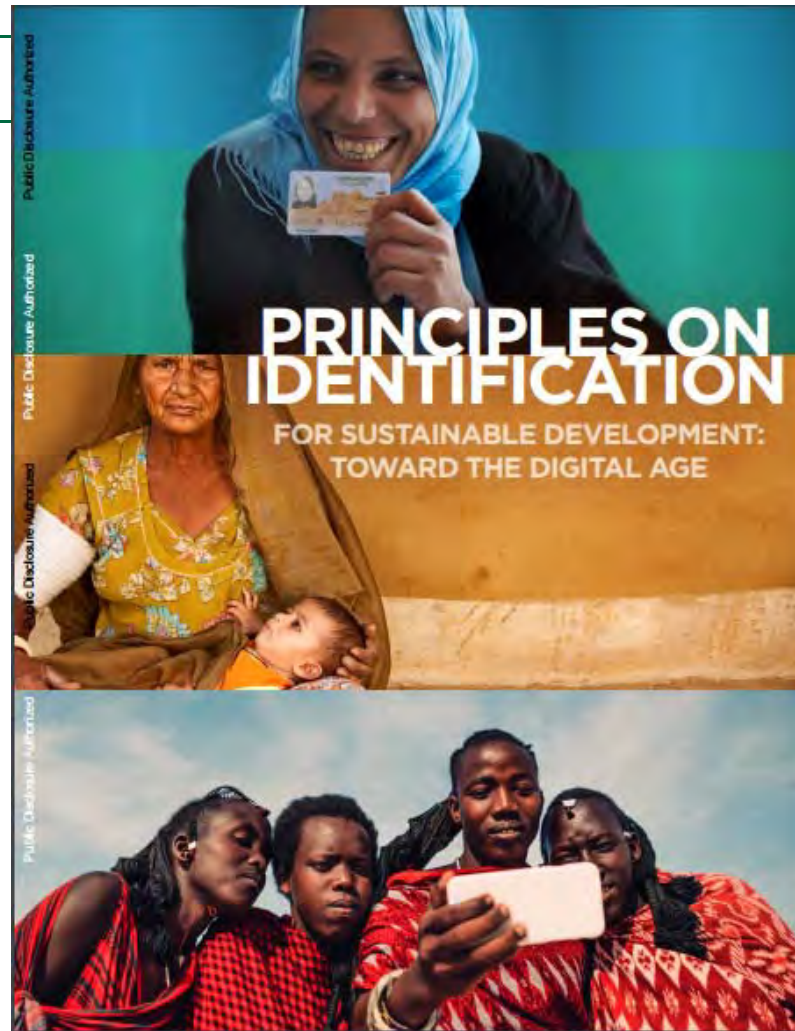
## Countries with an ID



## Countries with an eID







**Safeguarding data privacy, security, and user rights through a comprehensive legal and regulatory framework.**





## Digital Identity: Issue Analysis



CHyp doc ref: PRJ.1578  
Version: 1.6  
Date: 8<sup>th</sup> June 2016  
Authors: Carly Nyst  
Steve Pannifer  
Edgar Whitley  
Paul Makin  
Approved: Dave Birch

---

## Digital Identity Privacy Principles

---

- Mapped on to existing privacy and identity principles
  - OECD guidelines
  - Fair Information Practice Principles
  - EU Data Protection Directive
  - Laws of Identity (Kim Cameron)
  - GOV.UK Verify Principles

---

## Four themes

---

- Fairly regulated
- Citizen centric
- Protecting privacy
- Interoperable and secure

---

## Separating authentication from identification

---

- Digital technologies can provide strong authentication
  - Biometric reader
  - Two factor authentication

---

## Authentication and identification

---

- Enable strong authentication even if identity evidence package is poor
  
- Grow identity evidence over time



Enabling the  
information society

**[e.a.whitley@lse.ac.uk](mailto:e.a.whitley@lse.ac.uk)**

---

---

- Digital identity: Issues analysis report

- [http://www.chyp.com/wp-content/uploads/2016/07/PRJ.1578-Digital-Identity-Issue-Analysis-Report-v1\\_6-1.pdf](http://www.chyp.com/wp-content/uploads/2016/07/PRJ.1578-Digital-Identity-Issue-Analysis-Report-v1_6-1.pdf)



---

## Data mashup

---

- World Bank ID4D data set (June 2017)
  - June 2017 [http://databank.worldbank.org/data/download/IDS/WB\\_ID4D\\_dataset.xlsx](http://databank.worldbank.org/data/download/IDS/WB_ID4D_dataset.xlsx)
- Graham Greenleaf's Global Tables of Data Privacy Laws and Bills (5th Ed, June 2017)
  - [https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=2992986](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2992986)