



# Digital Identity Toolkit

Section 7: Reports and further reading

May 2023



# What is this Toolkit?

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Digital identity is a relatively new but rapidly evolving sector that can and will affect many aspects of our everyday lives.

Digital identities verify and authenticate someone's identity. They can then be used to access a wide range of services and opportunities, from health and education services, voting and travelling, through to online shopping and dating. Governments and the private sector are developing and implementing digital identity solutions, and they're likely to become increasingly common in the future.

While there is already a lot of information on this topic, much of it is in lengthy, technical reports and hasn't been collated into a simple format that non-technical people can understand. We hope this Toolkit can help close that gap.

This Toolkit has been designed to help you find everything you need to know about digital identity. Before producing it, we spoke with individuals and non-profits around the world to get a sense of what they'd like to know about digital identities.

The audience for this Toolkit is members of the public, non-profits, entrepreneurs, developers, journalists and academics who want to learn more about digital identity and how digital identities might be relevant to them in their lives or work.

We hope you find this Toolkit helpful and welcome your feedback about how it could be improved.

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# Summary

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Below is a list of reports if you're looking for a more detailed perspective on the current and future state of digital identity. Many of these are white papers from the World Bank or consultancies. They explore different types of digital identity, look at the uses of digital identity globally in different sectors and provide greater insight into digital identity as a whole. For ease, we have highlighted the key issues tackled in each report for you.



# Case studies

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## Caribou Digital

### Identity at the Margins: Refugee Identity 2018

<https://medium.com/caribou-digital/report-launch-identity-at-the-margins-identification-systems-for-refugees-69466244fa62>

### Omidyar Network and the International Institute of Information Technology Bangalore. Caribou Identities Report 2017

<https://www.identitiesproject.com/>

## GSMA

### Advancing Digital Societies in Asia Pacific 2018

<https://www.gsma.com/asia-pacific/resources/digital-identities-advancing-digital-societies-in-asia-pacific/>

### Digital Identity Case Studies from Africa and Latin America 2018

<https://www.gsma.com/mobilefordevelopment/blog-2/digital-identity-case-studies-from-africa-and-latin-america/>

### Recognising Urban Refugees in Jordan: Opportunities for Mobile-Enabled Identity Solutions 2018

[https://www.gsma.com/mobilefordevelopment/wp-content/uploads/2018/12/Recognising\\_urban\\_refugees\\_in\\_Jordan.pdf](https://www.gsma.com/mobilefordevelopment/wp-content/uploads/2018/12/Recognising_urban_refugees_in_Jordan.pdf)

## World Bank ID4D

### Africa Business Plan

<https://documents1.worldbank.org/curated/en/484791507732929415/Identification-for-Development-ID4D-Africa-business-plan-IDA-18-FY18-20.pdf>

### Digital ID in Agriculture 2018

<https://documents1.worldbank.org/curated/en/655951545382527665/pdf/The-Role-of-Digital-Identification-in-Agriculture-Emerging-Applications.pdf>

**ID Enabling Environment Assessment (IDEEA) 2018**

<https://id4d.worldbank.org/sites/id4d.worldbank.org/files/2018-12/IDEEA%20Guidance%20Note%20-%20Consultation%20Draft%20V11142018.pdf>

**Identification in the Context of Forced Displacement 2018**

<http://documents.worldbank.org/curated/en/375811469772770030/Identification-in-the-context-of-forced-displacement-identification-for-development-ID4D>

**The ID4D Agenda: Its Potential for Empowering Women and Girls - background paper**

<http://documents.worldbank.org/curated/en/859071468190776482/The-identification-for-development-ID4D-agenda-its-potential-for-empowering-women-and-girls-background-paper>

**World Bank Open Knowledge. The State of Identification Systems in Africa: Country Briefs 2017**

<https://openknowledge.worldbank.org/handle/10986/28310>

**World Bank. Principles on Identification for Sustainable Development: Toward the Digital Age 2021**

<https://documents.worldbank.org/en/publication/documents-reports/documentdetail/213581486378184357/principles-on-identification-for-sustainable-development-toward-the-digital-age>

**World Food Programme. Scope Identity and Distribution System 2017**

<https://docs.wfp.org/api/documents/7e86e5a6a70447aba713e3cd4e759d8d/download/>

# Digital identity

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## Access Now

**National Digital Identity Programmes: What's Next? 2018**

<https://www.accessnow.org/national-digital-identity-programmes-whats-next/>

## Caribou Digital

**Private-Sector Digital Identity in Emerging Markets 2019**

<https://www.cariboudigital.net/wp-content/uploads/2019/01/Caribou-Digital-Omidyar-Network-Private-Sector-Digital-Identity-In-Emerging-Markets.pdf>

## Centre for Global Development

**Identification Revolution: Can Digital ID Be Harnessed for Development? 2017**

<https://www.cgdev.org/sites/default/files/identification-revolution-can-digital-id-be-harnessed-development-brief.pdf>

## Everest

**Digital ID Paper 2018**

[https://neironix.io/documents/whitepaper/6771/Everest-Whitepaper\\_01Sept2018-v2.pdf](https://neironix.io/documents/whitepaper/6771/Everest-Whitepaper_01Sept2018-v2.pdf)

## Future Agenda

**The Future of Digital Identity: An Initial Perspective 2018**

<https://www.slideshare.net/futureagenda2/the-future-of-digital-identity-initial-perspective>

**The Future of Digital Identity: Input from multiple experts from around the world 2019**

<https://www.slideshare.net/futureagenda2/the-future-of-digital-identity-2019-future-agenda-137106632>

## Gemalto

**The Digital Identity Revolution**

<https://www.gemalto.com/govt/identity/digital-identity-services/mobile-id>

## IBM

### Digital Identity Management: Enabling Innovation and Trust in the Internet Economy 2011

<https://www.oecd.org/sti/ieconomy/49338380.pdf>

## International Telecommunication Union (ITU)

### Digital Identity Roadmap Guide 2018

<http://www.itu.int/pub/D-STR-DIGITAL.01-2018>

## Mastercard

### Restoring Trust in a Digital World 2019

<https://www.mastercard.us/content/dam/mccom/en-us/issuers/digital-identity/digital-identity-restoring-trust-in-a-digital-world-final-share-corrected.pdf>

## Sovrin

### Competitor White Paper 2018

<https://sovrin.org/wp-content/uploads/Sovrin-Protocol-and-Token-White-Paper.pdf>

### The Inevitable Rise of Self-Sovereign Identity 2017

<https://sovrin.org/wp-content/uploads/2018/03/The-Inevitable-Rise-of-Self-Sovereign-Identity.pdf>

## Tech UK

### The Case for Digital Identity 2019

<https://www.techuk.org/asset/724BCC38-C21D-42FE-9752C4CD2A988C25/>

[pdf version of report](#)

## USAID

### Identity in the Digital Age 2018

<https://www.usaid.gov/sites/default/files/2022-05/2018-DigitalDownload.pdf>

## Windley

### Understanding Digital Identity Management 2018

<http://www.windley.com/docs/Digital%20Identity.pdf>

## World Bank ID4Africa

### The ID for Africa Annual Report 2018

<https://www.usaid.gov/sites/default/files/2022-05/2018-DigitalDownload.pdf>

## World Bank ID4D

### Annual Report 2018

[https://id4d.worldbank.org/sites/id4d.worldbank.org/files/2018\\_ID4D\\_Annual\\_Report.pdf](https://id4d.worldbank.org/sites/id4d.worldbank.org/files/2018_ID4D_Annual_Report.pdf)

### Digital Identity Toolkit: A Guide for Stakeholders in Africa 2014

<http://documents.worldbank.org/curated/en/147961468203357928/Digital-identity-toolkit-a-guide-for-stakeholders-in-Africa>

### Global Data Set 2018

<http://id4d.worldbank.org/global-dataset>

### Guidelines for ID4D Diagnostics 2018

<http://id4d.worldbank.org/Diagnostic-Guidelines>

### Identification for Development 2017

[https://id4d.worldbank.org/sites/id4d/files/2021-10/2017\\_ID4D\\_Annual\\_Report.pdf](https://id4d.worldbank.org/sites/id4d/files/2021-10/2017_ID4D_Annual_Report.pdf)

## World Economic Forum

### Blueprint for Digital Identity 2016

[http://www3.weforum.org/docs/WEF\\_A\\_Blueprint\\_for\\_Digital\\_Identity.pdf](http://www3.weforum.org/docs/WEF_A_Blueprint_for_Digital_Identity.pdf)

### Identity in a Digital World A New Chapter in the Social Contract 2018

<https://www.weforum.org/reports/identity-in-a-digital-world-a-new-chapter-in-the-social-contract>

# Finance

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## Access to Cash

**Access to Cash Report 2019**

<https://www.accessfocash.org.uk/>

## GSMA

**Innovative Mobile Digital Identity Solutions Financial Inclusion and Birth Registration 2018**

<https://www.gsma.com/mobilefordevelopment/resources/innovative-mobile-digital-identity-solutions-financial-inclusion-and-birth-registration/>

## McKinsey & Company

**Digital Identification A Key to Inclusive Growth 2019**

<https://www.mckinsey.com/business-functions/digital-mckinsey/our-insights/digital-identification-a-key-to-inclusive-growth>

## The Economist Intelligence Unit

**The Economics of Digital Identity 2015**

<https://impact.economist.com/perspectives/sites/default/files/EconomicsDigitalIdentity.pdf>

## World Bank & GSMA

**Digital Identity: Towards Shared Principles for Public and Private Sector Cooperation 2018**

<http://pubdocs.worldbank.org/en/219201522848336907/PrivateSectorEconomicImpactsIDSystems-Web.pdf>

## World Bank ID4D

**Private Sector Economic Impacts from Identification Systems 2018**

<http://pubdocs.worldbank.org/en/219201522848336907/PrivateSectorEconomicImpactsIDSystems-Web.pdf>

**Public Sector Savings and Revenue from Identification Systems: Opportunities and Constraints 2018**

<http://pubdocs.worldbank.org/en/745871522848339938/PublicSectorSavingsandRevenueIDSystems-Web.pdf>



# Government

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## Open Society Foundations and Namati

**Documenting Citizenship and Other Forms of Legal Identity: a Community-Based Commissioners Guide 2018**

<https://www.opensocietyfoundations.org/publications/community-based-practitioner-s-guide-documenting-citizenship-and-other-forms-legal>

## Organisation for Economic Development

**Embracing Innovation in Government Global Trends 2018**

<https://www.oecd.org/gov/innovative-government/embracing-innovation-in-government-2018.pdf>

## The Better Identity Coalition

**Better Identity in America: A Blueprint for Policymakers 2019**

<https://www.betteridentity.org/>

## World Bank ID4D

**Incentives for Improving Birth Registration Coverage: A Review of the Literature 2018**

<http://pubdocs.worldbank.org/en/928651518545413868/Incentives-and-Birth-Registration030518.pdf>

**Integrating Unique Identification Numbers In Civil Registration 2018**

<http://documents.worldbank.org/curated/en/674401531758210363/Integrating-unique-identification-numbers-in-civil-registration>

**Role of Digital ID in Ending Child Marriage 2019**

<http://documents.worldbank.org/curated/en/130281472492551732/The-role-of-identification-in-ending-child-marriage-Identification-for-Development-ID4D>

# Health

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## Becker's Hospital Review

**A framework for digital identity in healthcare 2021**

<https://www.beckershospitalreview.com/cybersecurity/a-framework-for-digital-identity-in-healthcare.html>

## DIACC

**DIACC Industry Insights: Digital ID in Health Care 2019**

[https://diacc.ca/wp-content/uploads/2019/08/Industry-Insights-Digital-ID-in-Health-Care\\_August-2019.pdf](https://diacc.ca/wp-content/uploads/2019/08/Industry-Insights-Digital-ID-in-Health-Care_August-2019.pdf)

## Imprivata

**The Digital Identity Report: Solving Healthcare IAM Challenges 2020**

<https://www.imprivata.com/resources/datasheets/digital-identity-report-solving-healthcare-iam-challenges>

## Mastercard

**Mastercard makes healthcare move with digital ID solution patients can use on their smartphones 2021**

<https://www.fiercehealthcare.com/tech/mastercard-makes-healthcare-move-digital-id-solution-patients-can-use-their-smartphones>

## Prove

**Building Trust in Healthcare Using Digital Identity 2021**

<https://www.prove.com/blog/building-trust-in-healthcare-using-digital-identity>

## World Bank ID4D

**The Role of Digital Identification for Healthcare: The Emerging Use Cases**

<http://pubdocs.worldbank.org/en/595741519657604541/DigitalIdentification-HealthcareReportFinal.pdf>

# Research

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## HSBC

### Trust in Technology 2018

<https://www.hsbc.com/-/files/hsbc/media/media-release/2017/170609-updated-trust-in-technology-final-report.pdf>

## NESTA

### Research on Digital Identity Ecosystems 2018

<https://www.nesta.org.uk/report/d-cent-research-on-digital-identity-ecosystems/>

# Technology

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## Centre for Global Development

### Reassessing Expectations for Blockchain and Development 2018

<https://www.cgdev.org/publication/reassessing-expectations-blockchain-and-development-cost-complexity>

## GSMA

### Mobile Connect Workshop Bangkok 2018

<https://www.gsma.com/identity/resources/mobile-connect-workshop-at-mobile-360-digital-societies-in-bangkok>

## The Biometrics Institute

### Understanding Biometrics Implementation for Implementing Biometrics 2018

<https://www.biometricsinstitute.org/understanding-biometrics-considerations-for-implementing-a-biometric-system/>

## The Identity Blog

### The Laws of Identity 2005

<http://www.identityblog.com/stories/2005/05/13/TheLawsOfIdentity.pdf>

## World Bank ID4D

### Technical Standards for Digital Identity - DRAFT FOR DISCUSSION 2018s

<http://pubdocs.worldbank.org/en/579151515518705630/ID4D-Technical-Standards-for-Digital-Identity.pdf>

### Technology Landscape for Digital ID 2018

<http://pubdocs.worldbank.org/en/199411519691370495/ID4DTechnologyLandscape.pdf>

