

## One Pager - The Age of AI, AR, VR, Robotics and Human Cloning

The planet's facing a technological tsunami approaching our shores via the combination of:

- Artificial intelligence (AI)
- Augmented reality (AR)
- Virtual reality (VR)
- Robotics (both virtual and physical)
- Genetic engineering
- Nanotechnology
- Wireless communication

The result is what Wired Magazine recently called “Mirrorworld” (<https://www.wired.com/story/mirrorworld-ar-next-big-tech-platform/>). It's a world where the lines between virtual and physical blur.

Couple this with genetic engineering and human cloning. Today a company, Boyalife, in China is working at cloning 100,000 cows a year going to 1 million (<https://www.boyalifegroup.com/our-business/genomics/>). In 2015, [their CEO publicly stated they could clone humans but weren't](#).

In Israel, scientists recently said, within a year, they may be able to offer a complete cure for cancer (<https://www.forbes.com/sites/robinseatonjefferson/2019/01/29/israeli-scientists-say-they-will-have-a-complete-cure-for-cancer-within-a-year/#431e18cc3621>).

It will change our ideas of who we are, what we can do, who we can do it with and how we work, live and play.

This revolution not only changes our perception of ourselves and our world BUT, brings new challenges in identity and data privacy. Simply walking down a block will generate LOTS of information, EVERY SECOND, about yourself, your body, your behavior, your emotions, where you look, eyeblinks per second, etc. It affects children, teens and adults.

**The tsunami requires new legal frameworks for identity, data and consent, where we, the citizens, can control our identities, biometric/behavioral data AND where children are protected. It must be global in scope.**

Readers should refer to “[Policy Principles for AI, AR, VR, Robotics & Cloning - A Thought Paper](#)” for suggested principles to create new laws with, “[Who am I?](#)” for listings of the 19 papers I've written on this and “[The Identity Lifecycle of Jane Doe](#)” for a practical example of the effects of the new age identity, data and consent legal framework.

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**About the Author**

Guy Huntington is a veteran identity architect, program and project manager who's lead as well as rescued many large identity projects with many of them involving identity federation. His past clients include Boeing, Capital One, Kaiser Permanente, WestJet, Government of Alberta's Digital Citizen Identity and Authentication Program and Alberta Blue Cross. As one of his past clients said "He is a great find, because he is able to do high quality strategic work, but is also well-versed in project management and technical details, so he can traverse easily from wide to deep. With Guy, you get skills that would typically be encompassed in a small team of people."

Guy consults globally on the incoming technological tsunami wave of change.



## Note to Reader:

I have been writing about rethinking civil registration systems since 2006

- [“The Challenges with Identity Verification”](#)

Over the last year and a bit, I have written 32 papers, including two proposals, on the impacts from the technological tsunami. Here’s a listing of them, by subject area, with links to each one:

- Thought Papers
  - Artificial Intelligence & Legal Identification – A Thought Paper
    - [Artificial Intelligence & Legal Identification](#)
  - Human Migration, Physical and Digital Legal Identity – A Thought Paper
    - [Human Migration, Physical and Digital Legal Identity](#)
  - Digital Twins/Virtual Selves, Identity, Security and Death – A Thought Paper
    - [Digital Twins/Virtual Selves, Identity, Security and Death](#)
- Proposals and Discussion Paper:
  - Bot Legal Identity Proposal
    - [Proposals for Identification of Bots \(Physical and Virtual Robots\)](#)
  - Human Legal Identity Proposal
    - [Proposals Paper – Incremental Approach to Implementing New Age Legal Identity](#)
  - Background Information on Legal Identity, Data, Consent and Federation
    - [Background Information on Legal Identity, Data, Consent and Federation](#)
- Example story of an identity’s lifecycle
  - [The Identity Lifecycle of Jane Doe](#)
- Technological Tsunami Wave of Change
  - [Harnessing the Technological Tsunami Wave of Change](#)
- Legal Privacy Framework for the Tsunami Age
  - [Legal Privacy Framework for the Tsunami Age](#)
- One-page summary
  - [One Pager - The Age of AI, AR, VR, Robotics and Human Cloning](#)
- Technological Tsunami and IAM
  - [Technological Tsunami & Future of IAM](#)

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- New age identity, data, and consent
  - [Privacy Gone – AI, AR, VR, Robotics and Personal Data](#)
  - [I Know Who You Are & What You’re Feeling - Achieving Privacy in a Non-Private World](#)
  - [Consent Principles in the New Age – Including Sex](#)
  - [Policy Principles for AI, AR, VR, Robotics and Cloning – A Thought Paper](#)
  - [Legal Person: Humans, Clones, Virtual and Physical AI Robotics – New Identity Principles](#)
- Kids and Parents Privacy
  - [Young Children Data Privacy Challenges in the Tsunami Age](#)
  - [Kids Privacy in Non-Private World - Why Even Super Hero’s Won’t Work](#)
  - [Children & Parent Privacy in the Tsunami Age](#)
- Robotics, Clones, and Identity
  - [Legally Identifying Robots?](#)
  - [Rapidly Scaling Robot Identification?](#)
  - [Virtual Sex, Identity, Data & Consent](#)
  - [I’m Not a Robot](#)
- New age civil registration legal identity framework
  - [“Why the New Age Requires Rethinking Civil Registration Systems”](#)
  - [“What New Age Civil Registration Won’t Do.”](#)
- New Age Assurance
  - [“New Age Assurance – Rethinking Identity, Data, Consent & Credential”](#)
- Deploying AI, AR, VR, robotics, identity, data and consent in challenging locations
  - [“Where Shit Happens”](#)
- Protecting the civil registration/vital stats infrastructure
  - [“When Our Legal Identity System Goes, “Poof!”](#)
- New age architecture principles summary
  - [“New Age Architecture Principles Summary”](#)
- Leveraging Blockchain and Sovrin
  - [“A Modern Identity Solution: New Age Vital Stats/Civil Registries, Self-Sovereign Identity, Blockchain, Kantara User-Managed Access & EMP Resistant Data Centres”](#)
- Creating Estonia Version 2.0
  - [“Creating Estonia Version 2.0 – Adjusting for Changes From 1999 to 2018”](#)
- New age civil registration/vital stats design, implementation & Maintenance Vision
  - [“Guy’s New Age Civil Registration/Vital Stats Design, Implementation & Maintenance Vision”](#)

All papers are available off my website at <https://www.hvl.net/papers.htm>.