"AI Systems/Bots Legal Identities Executive Summary"

"Mission Control – We Have a Problem"

In the old days of space flight, mission control was the hub of the operational wheel, running spacecraft and their occupants. When an astronaut radioed in they had a problem, it was a call to battle stations for the support teams on the ground. Here's my point – today on the planet we are rapidly creating millions, billions and then more of AI systems and bots, both digitally and physically. **Today, there is NO ability to legally identify these types of entities, which works globally, i.e. there's no mission control. WE HAVE A RAPIDLY GROWING PROBLEM.**

There's No Magic Wand

The problems are huge and complex, i.e. there's no magic technical wand one can wave solving all the legal, business processes and technical challenges. Some history is in order to help explain this…

- Two years ago, in 2019, I wrote a paper "Legally Identifying Robots (Robot Identification)" - https://hvl.net/pdf/Legally%20Identifying%20Robots%20Feb%202019.pdf
    - o In this paper, I began to develop sample use cases and came up with the idea of a RIU "Robot Identification Unit"
- In January of last year, 2020, I partnered with Michael Kleeman, co-founder of many different telcos around the planet and ex-CTO of Boston Consulting Group) to write this proposal, "Proposals for Identification of Bots (Physical and Virtual Robots)" - https://hvl.net/pdf/BotsIdentificationJan22020Final.pdf.
    - o We began to lay out a phased approach to address this including developing a common nomenclature for AI systems/bots, as well as creating working groups to rapidly address the issue
    - o This proposal went nowhere in a hurry
- In March of last year, 2020, I realized it was rapidly growing more complicated, since AI systems are now becoming increasingly "smarter" and more widely used. Thus, I wrote this thought paper, "Artificial Intelligence & Legal Identification" - https://hvl.net/pdf/ArtificialIntelligenceLegalIdentificationMarch2020.pdf.
    - o Within the paper I explore how AI systems can now legally own LLC's, etc.

Here's the Biggest Challenges as I See It

- AI systems and bots, especially virtual ones, can be created at awesome speeds per second in one jurisdiction, and in the next instance, be operating in many, many others
  - o This throws out the door our old ideas of slowly managing legal identity registration within each jurisdiction
- AI Systems and bots, both physical and digital, are going to be able to increasingly work together in singularity (I'm also including in this the rapid growth of smart IoT devices)
  - o This means, from a contractual perspective, enterprises wanting to leverage services need to have the ability to determine legally:
    - ▪ Who's who in the proverbial zoo, i.e. which bots are attached to what AI systems, and which AI systems are attached to other AI systems?
    - ▪ To have the ability to enforce contractually limitations on sharing of certain types of information between this rapidly growing multiverse of entities
- The rate of change and speed at which these entities can work, will mean their relationships will likely very quickly change
  - o This requires the use of graph technology, etc. instead of LDAP
- As AI systems and bots become increasingly "smarter" humans will have a very hard time in determining if they're dealing with a human or an AI system and if they're legitimate or masquerading as another
  - o In this paper, "Digital Twins, Virtual Selves, Identity, Security & Death" - https://hvl.net/pdf/Digital%20TwinsVirtualSelvesIdentitySecurityDeathFeb142020.pdf, I lay out what I call the beginnings of Fraud 4.0

YIKES!

That's how I sum up the overall situation. I'm just beginning to work with Toufi Saliba, global chair of IEEE AI Standards, on this. Michael and I both believe this is a rapidly growing big problem, which almost no one on the planet is paying any attention to.

Thus, Here's What I'm Looking For…

I want to assemble some really bright technical minds from around the planet to begin drilling into this. Yet, "technoids" are not the solution in and of themselves. It also requires some very, very smart and clever lawyers, business process folks and politicians to get involved. For what little it's worth, in my gut, I'm looking for a "home" to locate this, with lots of resources, to rapidly begin work, POC'ing and then piloting portions of it, in at least 1-3 jurisdictions around the planet.

In summary, I'm an old guy (pun intended) who can see the problem. I want to bring people together, from a wide variety of different backgrounds to solve this. Any good ideas appreciated.