

Let's Fix the Internet

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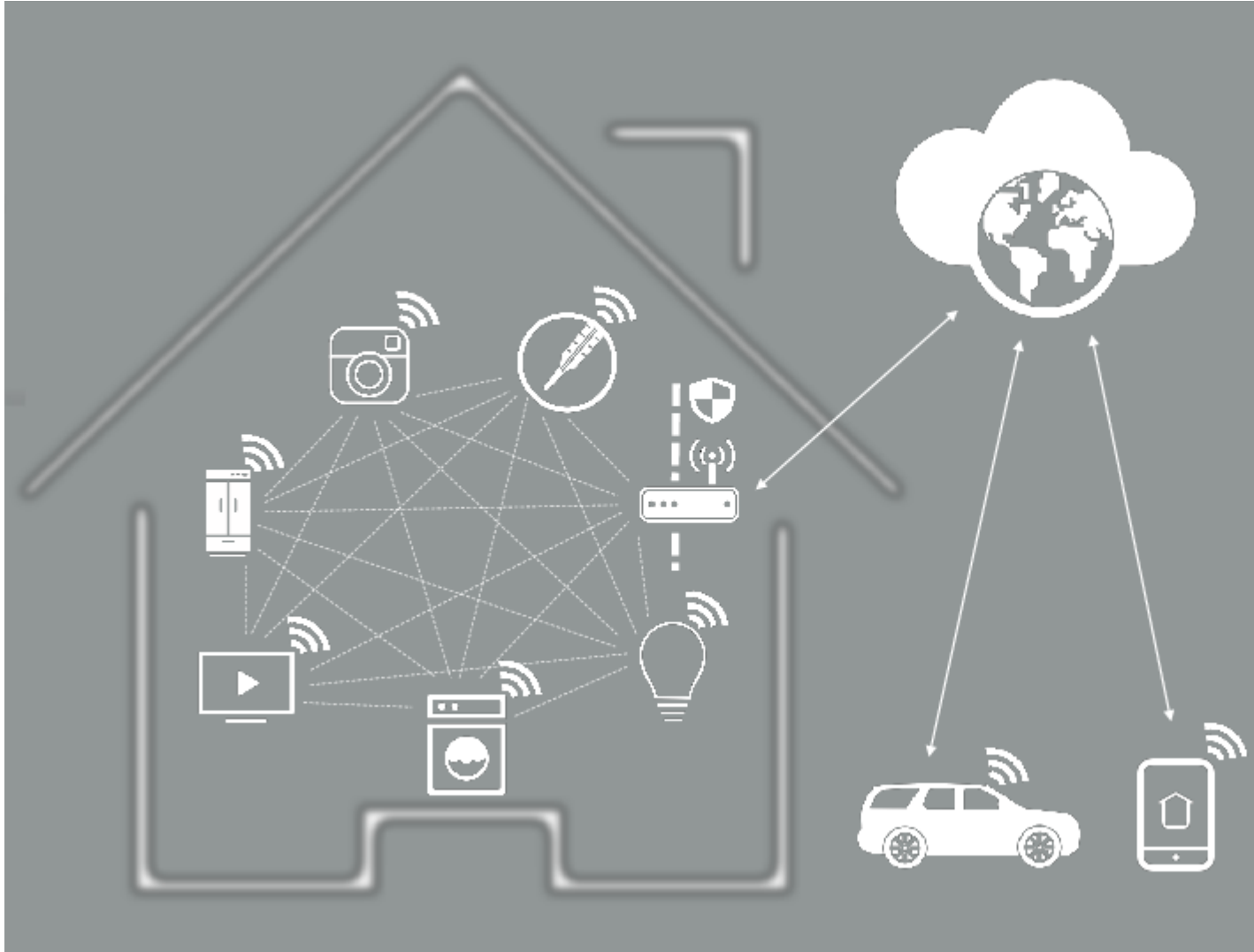
State of the network

History of the internet

- Internet was built on trust
- Can't keep rogue actors out
- SPAM
- DOS attacks
- Cookies are bad
- EU made laws against cookies

IoT made it worse

- IoT devices are hopelessly insecure
-> Block IoT Devices from the internet



IoT Challenges

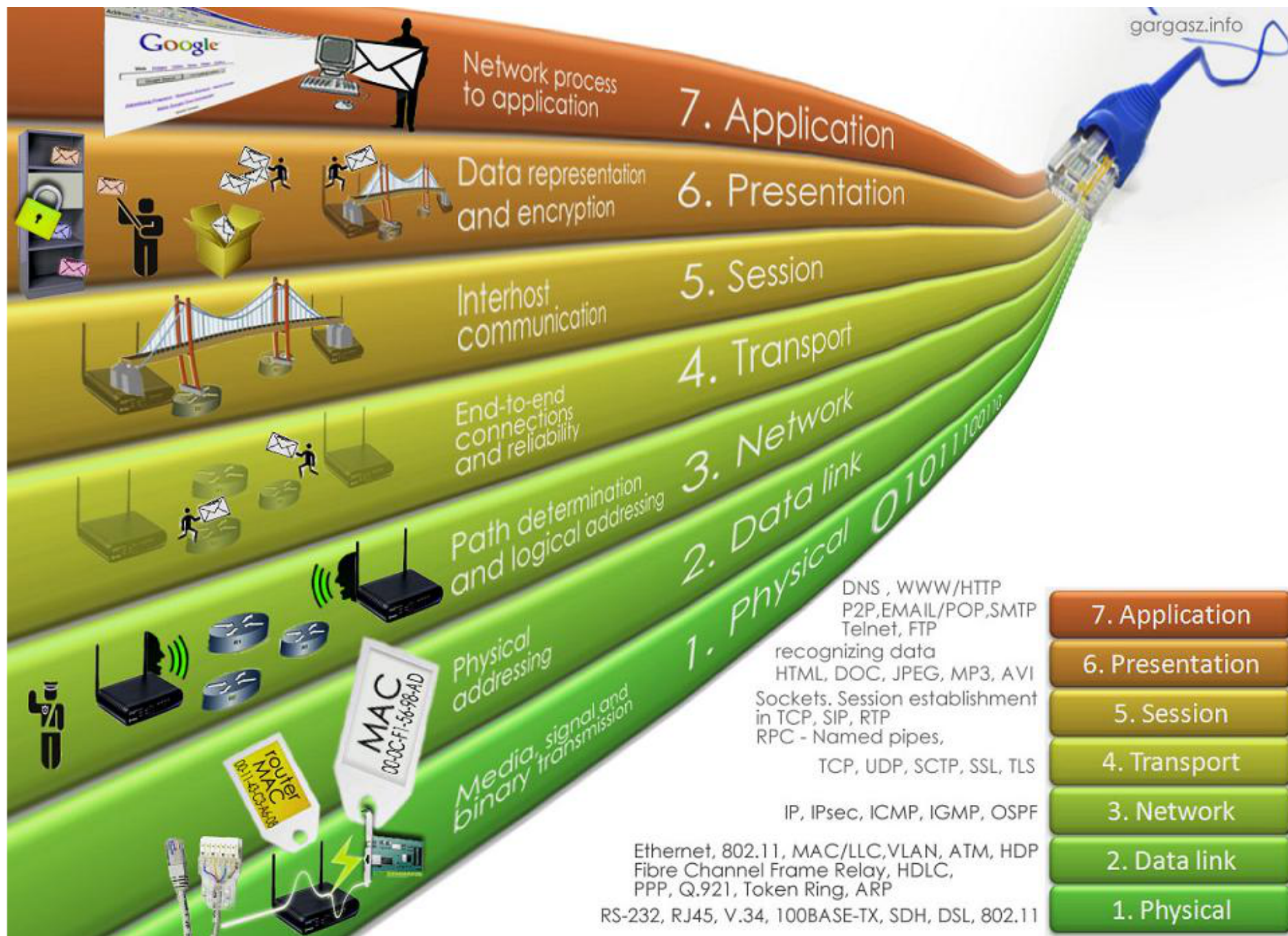
1. Security and Safety
2. Embedded and Real-time
3. Distributed and Decentralized
4. Main Stream Programming
5. User Content Monetization

End User
Identification

APPLICATIONS

KERNEL

HARDWARE



so how do we get out of this mess?

put User Identification first

create an OS that allows apps to be built on a Users First paradigm.

Elastos

1. complete set of C/C++ APIs and frameworks
 - > rewrote the complete android framework and runtime in C++
2. a distributed OS runtime with end-to-end security accross a P2P network
3. Elastos runtime, designed for containers/virtual-machines
4. Blockchains for authentication

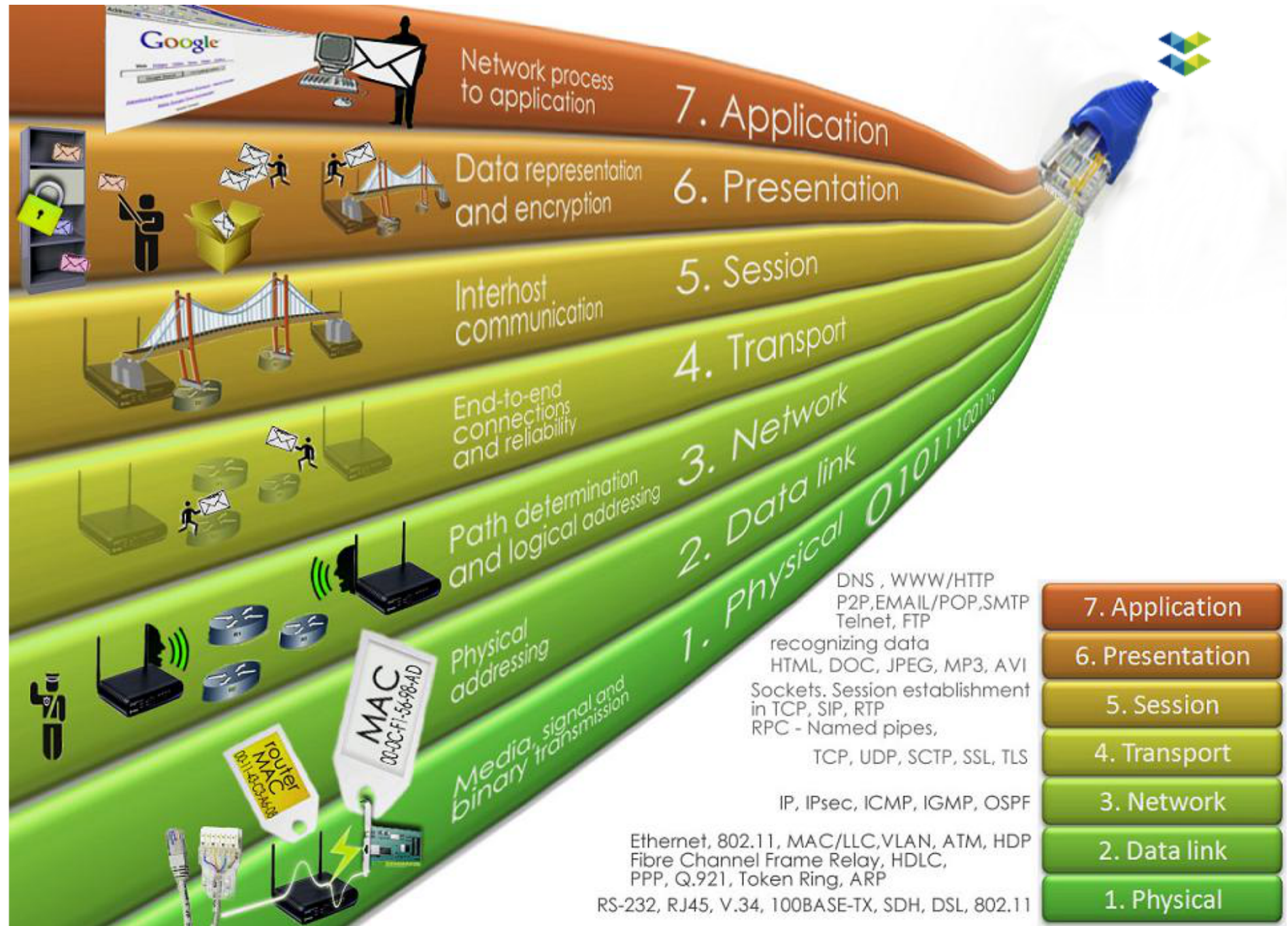
APPLICATIONS

ELASTOS RUNTIME

User Identification
P2P Networking

KERNEL

HARDWARE



Elastos prevents apps from making their own network connections.

Connections are opened after User IDs have been verified.

-> prevents spam, DOS attacks, worms and viruses.

Elastos History

- Started in 2000 to build a smartphone OS
- Restart in 2012 adding IoT focus
 - > \$30mil funding by Foxcon

Elastos 2015



Elastos on Banana Pi



Elastos Smart-Router

Elastos 2016



Elastos Smart-Phone
XT1085



Elastos on Raspberry Pi 3

2017

- Start blockchain development
- 4K Bitcoins funding

2018

- *(January) ICO (2.5K Bitcoins)*

References

The internet is broken. Starting from scratch, here's how I'd fix it

- <https://www.linkedin.com/pulse/internet-broken-starting-from-scratch-heres-how-id-fix-isaacson>

Why HTTP/2.0 does not seem interesting

- <https://varnish-cache.org/docs/trunk/phk/http20.html>

The future is a decentralized internet

- <https://techcrunch.com/2017/01/08/the-future-is-a-decentralized-internet/>

Elastos Executive Summary

- <https://www.linkedin.com/pulse/elastos-executive-summary-rong-chen>

Elastos Source Code on [GitHub.com](https://github.com/elastos) and [Elastos.org](http://elastos.org)

- <https://www.github.com/elastos/> and <http://elastos.org/>

come to the Blockchain BoF at 14:00

▪

**Blockchain Devroom at HongKong Open Source
Conference in June 2018**

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- <http://realss.com/>

videos of this talk

devconf.cz

- <https://www.youtube.com/watch?v=-ZTXYwFTxrQ>

luga.at (*german*)

- <http://luga.at/veranstaltungen/lets-fix-the-internet-2018-02-01/>
(video and slides will be posted soon)