

# The digital patient (ECRD)

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# Digital age for Digital patient

## Digital technologies

- ▶ Revolutionize society and offer innovative solutions
- ▶ Improve patients lives and advance medical research

## Big data and data sharing in life science

- ▶ Detection, diagnosis and management
- ▶ Analytics using cloud computing and artificial intelligence
- ▶ Collaborative care and remote treatment

# Health records management

**Blockchain** offers:

- ▶ a **reliable place to track** the changes across systems
- ▶ **solutions for security and privacy** concerns
- ▶ **data integration** between proprietary systems

**Medicalchain.com** – health records storage to maintain a single version of the truth

**Patientory.com** – decentralized HIS interconnected with equipment in real time

**Medibloc.org** - HIS to connect patients, healthcare providers and researchers

**Hit.foundation** – data marketplace to incentivize individuals to share their health-related data

# Clinical trials

Medical challenges for contemporary clinical research:

- ▶ Reproducibility and data sharing
- ▶ Personal data privacy concerns
- ▶ Patient enrolment in clinical trials

Fully integrated technical solutions:

- ▶ Labchain and clinicalchain
- ▶ Data source for remote medicine
- ▶ Field research and statistical data
- ▶ Reliable self service results ([rdaspot.com](http://rdaspot.com))



# Smart contracts / Smart assets

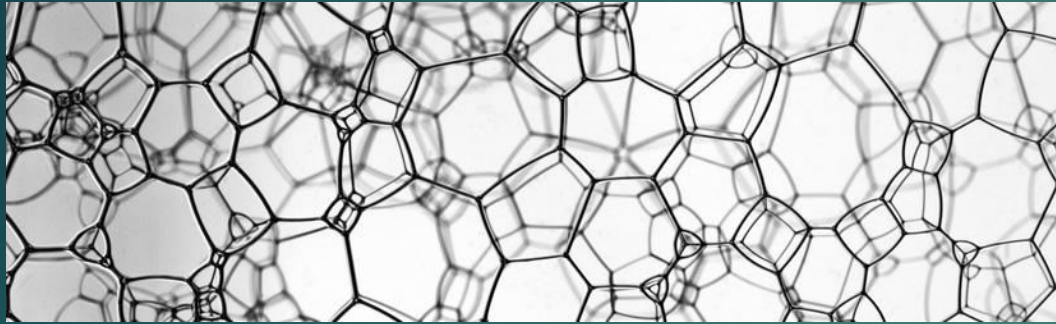
The patient, being the **owner of their own medical records**, will be able to fully control who accesses their data and which information they access

At the fingertips (Ethereum, NEM Foundation):

- ▶ Transparency and traceability of inform consents
- ▶ Full log of who has access to the medical data
- ▶ Recorded time of access and the fact ensures traceability
- ▶ Particular types of data that can be or was accessed
- ▶ Effectively managed direct access to data, personalized or private



Questions?  
Who, when and how?



Thank you!

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