# COVID-19 Supply Chain

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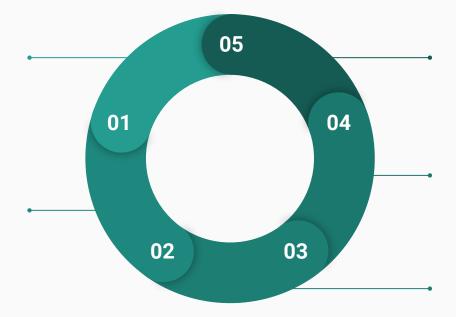
### About the problem

#### Manufacturer

The manufacturer produces the vaccine batches

### **National Storage Facilities**

National facilities in which are temporarily stored the vaccines, before sending them to each italian region



### Healthcare personnel

Healthcare personnel injects the vaccine to the patients and release the *sanitary* certification.

#### Vaccination HUB

Sites in which the vaccines are administered.

### **Regional Storage Facilities**

Regional facilities receive stocks from national storage facilities, and then distribute them to all the vaccination Hubs.

# System Actors

- Manufacturer
- Distributor
- National Storage Facilities
- Regional Storage Facilities
- Immunizer
- Patients

# Why Blockchain?

- Tamper-proof tracking of the supply chain.
- Security: decentralized control of the supply chain in order to avoid and prevent abuses from some actor.
- Full transparency: all partners have the responsibility to upload their information and data. A digital collection of accurate data improves accountability and trust between partners.

# Involved Technologies

- Ganache
- Truffle
- NodeJS
- Docker (?)