**Technical Specifications and Operating System**

DECODE (DEcentralised Citizen-owned Data Ecosystems) will develop technology that puts people in control of their personal data, giving them the ability to decide how it is shared.

In DECODE, entitlements attached to private data, including from Internet of Things devices, will be searchable in the public domain but will grant access only to those parties that have the entitlement to access it.

### Hardware
- Computation units for privacy.
- *Arduino* has done and provided extensive research over a period of a year on the right kind of hardware.
- Must run DECODE OS or Ubuntu.

### Operating System
- OS designed by DYNE.
- Open ended and flexible.
- Privacy by design.

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**Secure Operating System**

The DECODE OS enables easy development and deployment of distributed applications, without any constraint on the blockchain stack being used. It is a GNU+Linux distribution geared towards security and low consumption, with modular UNIX components. It is capable of establishing automatically a peer-to-peer network among other running nodes, offering micro-services to the inside and outside.