MyHealthMyData (MHMD) aims at fundamentally changing the way sensitive health data are shared through an innovative blockchain-based model enforcing consent and peer-to-peer data transactions between healthcare stakeholders in a probative, secure, open and decentralized manner. By fostering the development of a true information marketplace, MHMD will fuel European future information economy and implement new mechanisms of trust and direct, value-based relationships between EU citizens, hospitals, research centres and businesses.

**BLOCKCHAIN**
A digital ledger where data is trimmed in hash-based language code and data transactions are visible to the entire network of stakeholders, minimizing any possibility of fraudulent usage.

**DYNAMIC CONSENT**
A digital interface allowing users to grant, deny or revoke consent to data access for different uses according to their preferences.

**PERSONAL DATA ACCOUNTS**
Personal cloud storages enabling individuals to access their data from any technological device and employ them for personal use.

**SMART CONTRACTS**
Self-executing contractual states, based on the formalisation of contractual relations in digital form, that automate the execution of peer-to-peer transactions under user-defined conditions.

**DE-IDENTIFICATION AND ENCRYPTION TECHNOLOGIES**
Computational techniques employed for encoding and de-associating sensible data from the owners’ identity, meanwhile allowing the application of advanced analytics on encrypted and anonymised data.

**BIG DATA ANALYTICS**
Applications leveraging the value of large clinical datasets, advanced data analytics, medical annotation retrieval engines and patient-specific models for physiological prediction.

**CONSORTIUM**
Starting Date: 1 November 2016
Duration: 36 months
Total EU Contribution: 3,456,190.00 €

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