Evolving health data ecosystem

Health data ecosystem includes:
- **Health services**
  - Clinical records (EHR/EMR, Prescribing, Diagnostics)
  - Laboratory Insurance
  - Disease surveillance
  - Immunization records
  - Public health reporting
  - Vital statistics, Registries

- **Public health**
  - Health services
  - Disease surveillance
  - Immunization records
  - Public health reporting
  - Vital statistics, Registries

- **Research**
  - Genomics
  - Omics
  - Registries
  - Clinical trials
  - Biobanks

- **Environment**
  - Climate
  - Meteorological
  - Transport
  - Pollution
  - Energy
  - Geospatial

- **Lifestyle & socioeconomic**
  - Loyalty cards
  - Store transactions
  - Location tracking
  - Financial, Education Apps & Mobile

- **Technological**
  - Wellness, Fitness
  - Internet, Web
  - Social media
  - Self-monitoring
  - Wearables, Sensors
  - Apps & Mobile

- **Analytical**
  - Generation
  - Storage
  - Curation
  - Extraction
  - Interoperability
  - Protection

- **Stakeholders**
  - Individuals & groups
  - Citizens
  - Consumers
  - Patients
  - Civil society

- **Capabilities**
  - Research & academia
  - Health industry
  - Data & ICT industry
  - Government
  - Health agencies
  - Regulators
  - ICT agencies
  - International organizations

- **Policy**
  - Principles
  - Aims
  - Tools
  - Governance
  - Ethics

- **Visualization, Integration**
  - Prediction, Modeling
  - Synthesis
  - Insight

- **E. Vayena, J. Dzenowagis, M. Langfeld, 2016**