

# Technology and Data

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Dr. Shiler Khedri



# Policy and the Rise of Data and Technology

## Policy on regulating use of Technology and Data

- Protect individual right
- Improve ethical competence: e.g. bias, fairness, explainability and privacy-preserving ML
- Permission-less innovation
- Stimulate of economic growth
- Regulate competitive market and etc.

## Technology and Data

- Real time policy adaptation
- Deliver effective and efficient high-quality services
- Cultivate integrity and equality
- Define, predict and Mitigate risk and etc.

Policy through use of

# Technology and Data in Policy Making

Machine learning and big data have gained major traction in economics and quantitative social sciences. They go hand in hand and enable many new insights in these discipline.

The use of data and technology such as basic components of a learning system are not fundamentally new. The novelty lies in the type of relations that can be modelled. Additionally, an increasing quantity of micro or high-frequency data are becoming available to policy makers. Availability of wide range data and technology enables policy makers to also focus on prediction problems in addition to casual questions used often for policy making.

Machine learning in UK financial services October 2019

Machine Learning for Public Policy Making, Erasmus Mundus Master's in Public Policy 2018

# Data and Technology Eco-system

