## Royal Society Machine Learning Project

Science for Policy

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## Why Machine Learning?

Horizon scanning by Policy staff in 2014 led to the formation of a Core Group of experts.

#### Areas for consideration

- 1. What are the key questions relevant to society?
- 2. Is it important to do this work now?
- 3. Is anyone else doing it?

Core Group helped to identify the key focus proposed to the Council of the Royal Society.





# Royal Society to investigate the potential economic and societal impacts of Machine Learning and its applications in the UK

#### The project **aims** are:

- 1. To **increase awareness** of machine learning among UK and EU policymakers, the UK public and industry.
- 2. To raise the level of **public debate**.
- 3. To identify the key scientific and technical challenges, and the core social, ethical and legal issues raised by machine learning and suggest how they can be addressed.
- 4. To maintain a **UK and near-term** (5-10 years) focus.





## Royal Society to investigate the potential economic and societal impacts of ML and its applications in the UK

The project is being led by a **Working Group** involving a range of expertise:

































### Working Group led policy projects Overview



#### **Project development**

Proposal developed based on review of policy context and potential impact.



#### **Project approval by the Council**



#### **Report development**

**Gathering and analysing evidence; stakeholder engagement;** agreeing narrative and conclusions; drafting; review and sign-off.



#### **Council approval**



#### **Prepare for launch**

Final edits and sign-off; design and production; finalising launch, **communication and engagement.** 



#### Launch



#### **Engagement and influencing**

Engaging, informing and influencing stakeholders; follow-up and evaluation.



## What will come out of the project?

- Online material to explain machine learning and its applications from Spring 2016 onwards.
- Public events to engage our key audiences, including the UK public, industry, policymakers and the ML community.
- Evidence-based recommendations in a **policy report** for UK and EU policy makers, to be published late 2016 or early 2017.





### **Project Milestones**

**10 November 2015** 1st Working Group meeting

**19 November 2015** Public announcement (press release; webpage; call for evidence)

**December – July 2016** Evidence gathering activities (market research; workshops)

**April 2016** First public event(s), kick-off of public engagement campaign (inc. online)

**Summer 2016** Testing out project recommendations on our audiences

Late 2016 / Early 2017 Report Launch

2017 Ongoing dissemination (Hay festival etc)



## We want to know what you think

 The project will identify and analyse issues that need to be addressed to ensure the societal benefits of the technology are maximised and risks minimised.

 We are gathering views. Respond to our Call for Evidence (closing date 3 January 2016), accessible from Machine Learning webpage or contact the team at machinelearning@royalsociety.org

## Any questions?











