

Digital Single Market

Global Systems Science

The vision of Global Systems Science (GSS) is to provide scientific evidence to support policy-making, public action and civic society to collectively engage in societal action.



[1]

Policy makers suffer from an intrinsic difficulty when addressing challenges like climate change, financial crises, governance of pandemics, or energy sufficiency: the impact and unintended consequences of public action are increasingly hard to anticipate. Such challenges are global and connect policies across different sectors. When faced with such highly interconnected challenges, societies still tend to address subsystems and so fail to achieve systemic change.

GSS can drive change by

- helping develop an integrated policy perspective on global challenges; and
- developing a research agenda that will tackle the fundamental research challenges.

A case in point is the area of economic modeling after the financial crisis. New concepts and tools – for instance to analyze the network of actors in financial markets – will be developed in collaboration

between researchers in GSS and policy bodies. Other policy areas include urban dynamics and climate change where a combination of data from various sources (smart grids, mobility data, sensor data, socio-economic data...) with dynamical modeling will pave the way to new policy suggestions.

Numerous [projects](#) [2] funded by the European Commission form the the GSS cluster and look at the information flowing into a policy decision and the likely effect that a decision will have on the future. Together, they create an interesting suite of models that could help form evidence-based policy.

The [GSS portal](#) [3] fosters synergies between researchers and project teams working in the spirit of global systems science.

Team responsible

[DG CONNECT](#) [4]

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[2] <http://global-systems-science.eu/gss/content/projects>

[3] <http://global-systems-science.eu/gss/content/gss-portal>

[4] https://ec.europa.eu/info/departments/communications-networks-content-and-technology_en