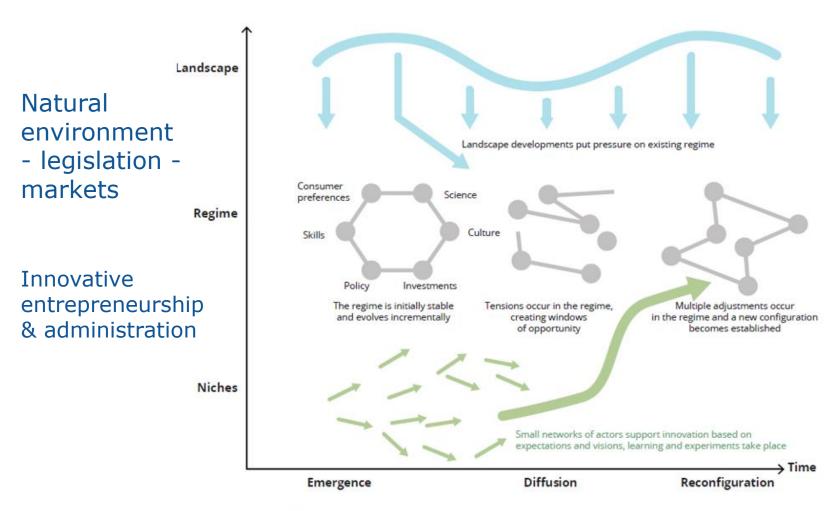


How to make transitions happen? and orchestrating innovation & legislation

Dr. Sven Schade DG Environment European Commission

The multilevel perspective on sustainability transitions

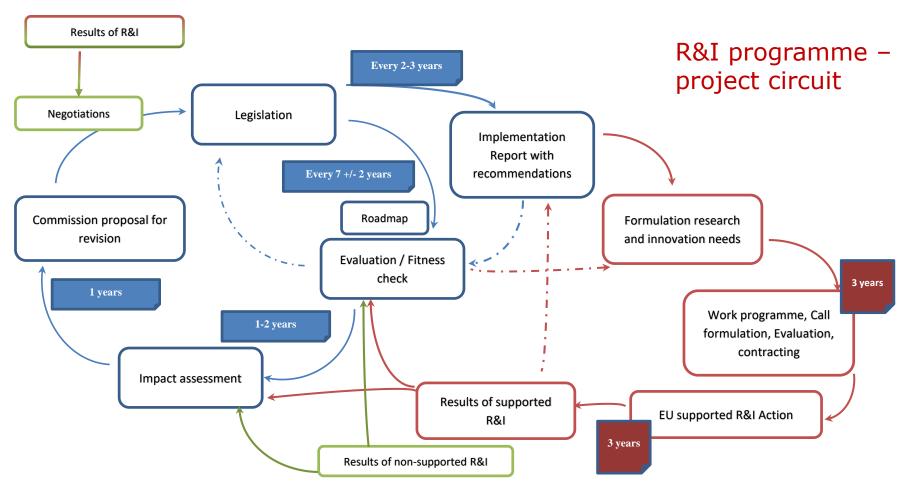


Source: Based on Geels, 2006.

Source: European Environmental Agency (2019): Sustainability transitions: Policy and practice

European Commission

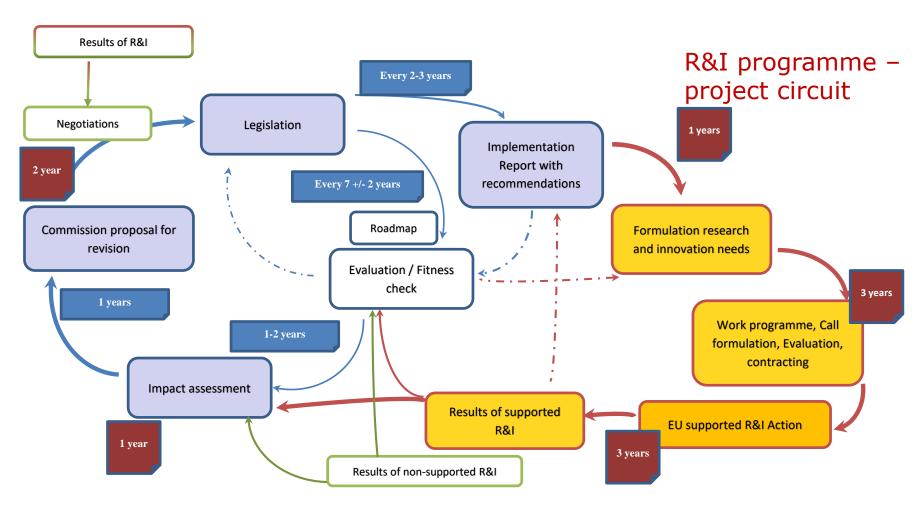
When can research have influence on revision of legislation?



Legislation's revision circuit



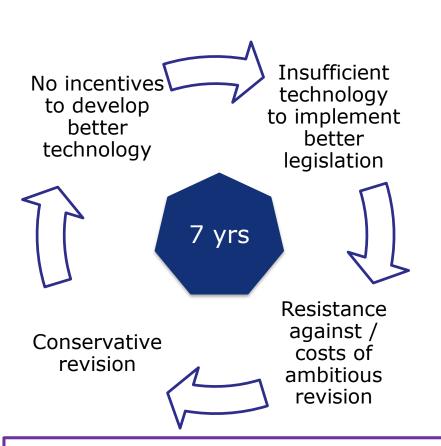
The fastest track for planned action – 10 years



Legislation's revision circuit



Breaking the "legislative lock-in" –Toxic chemicals monitoring in water



- 1. 50 out of +1000 toxic chemicals with potential to cause catastrophic harm are monitored (list in legislation) measuring concentrations.
- 2. Measuring 1000 is not economic nor scientifically sound
- 3. Science: Measure impacts (on advanced biosensors) not concentrations!
- 4. Technology is not developed as high resistance is anticipated
- 5. ERC grant: Measuring toxins impact on molecular level gives ,cosmetics' as likely application

2020 revision of Water Framework Directive would have to state that monitoring will be changed in 2030 should a technology become available.

+ A Horizon ,prize' to attract the relevant research

Mobilising science and policy for transition – make better use of powerful instruments

Timing matters – knowledge mobilisation

Well thought out, well timed Prizes

Experimenting solutions and governance

Location specific & social innovation

Breaking down perceived legal barriers

Innovation Deals