



INDTECH2018

Innovative industries for smart growth

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Vienna, Austria

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PILLAR 3

Session 3.5

On Mission Innovation global response: the Clean Energy Materials Innovation Challenge (Cooperation with EU and beyond)

Hermann Tribukait

Mexico Energy Innovation Funds & Mission Innovation Co-Lead

31 October 2018

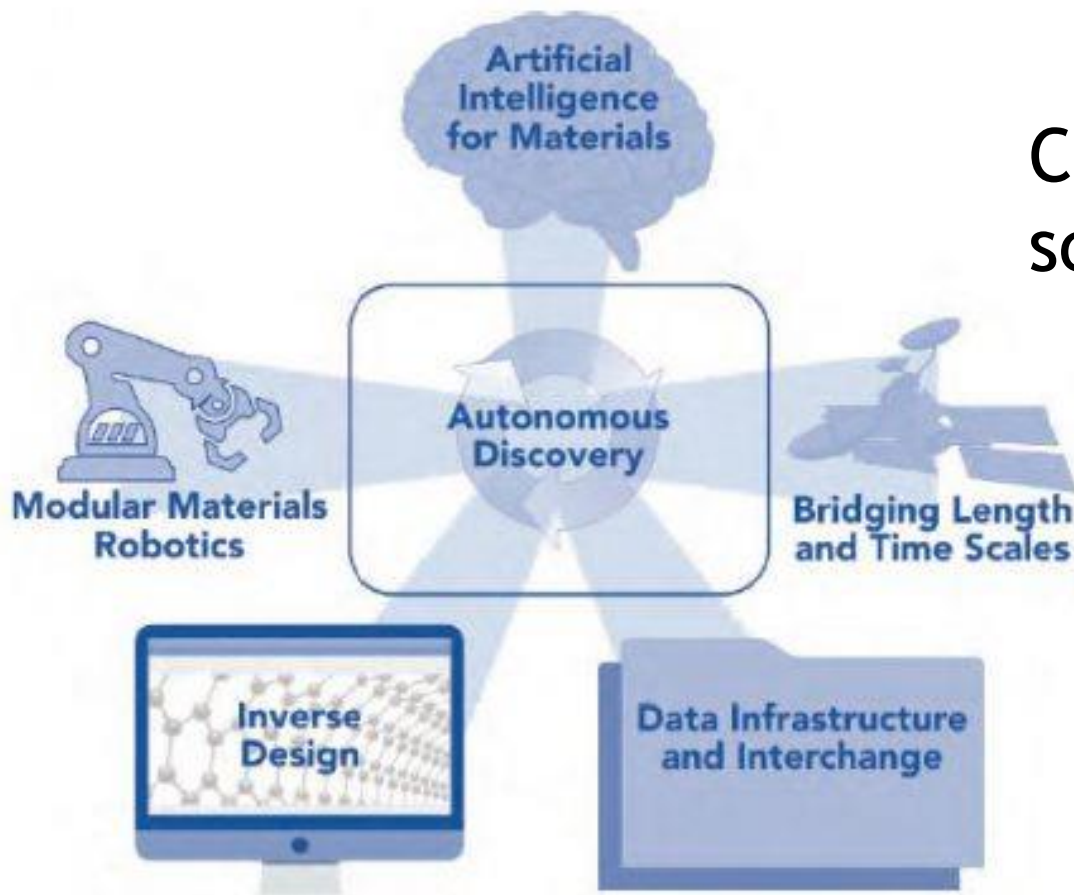
MISSION INNOVATION

Accelerating the Clean Energy Revolution



Clean Energy Materials Innovation Challenge (IC6)

The 4th Industrial Revolution / Industry 4.0 in Action



Combines materials sciences with:

- ▶ AI
- ▶ Robotics
- ▶ Big data (HPC, SC)

Goal: self-driving labs to discover materials **>10X faster**



Dr. Hermann Tribukait



@HT_IC6

The Innovation Challenge 6 on Accelerated Materials Discovery Addresses Key Global Challenges

Out of 32 listed challenges (Royal Geographical Society):

Low carbon energy

Climate change

Sustainability

Geoengineering

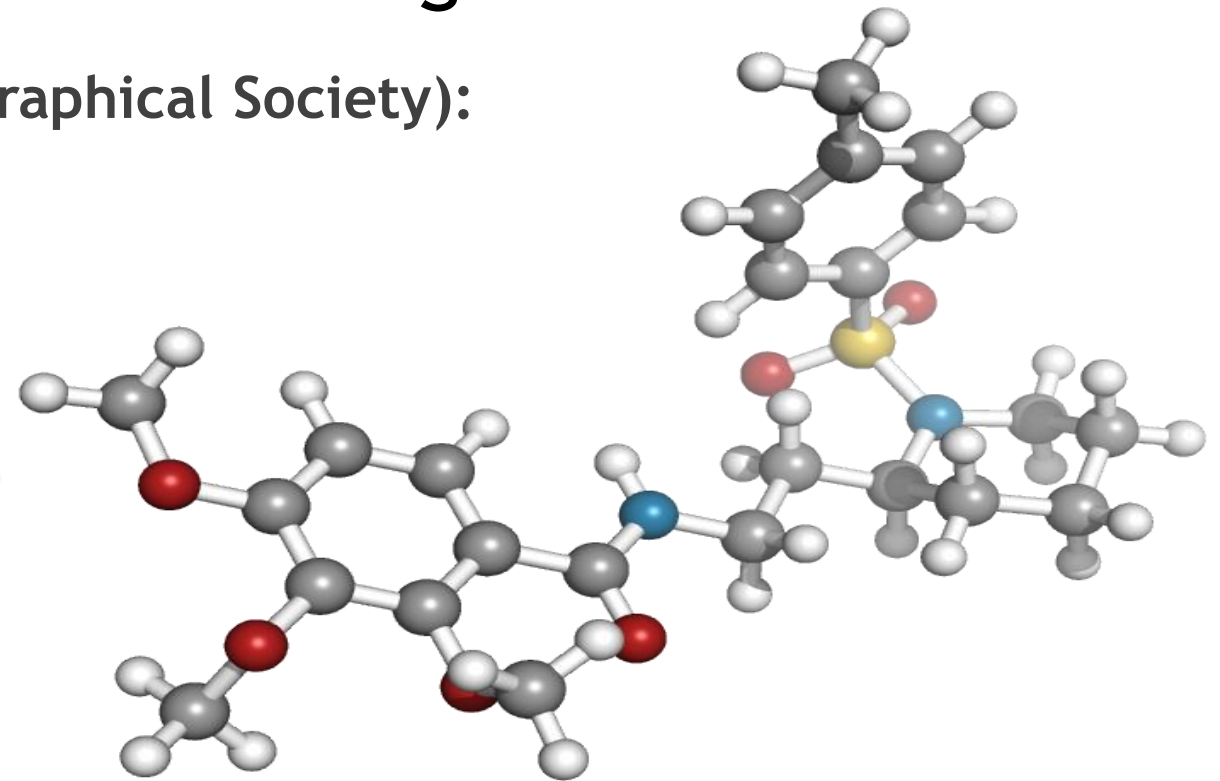
Plastic pollution in oceans

Air pollution

Global Health

Water security

<http://21stcenturychallenges.org/challenges/>



Molecules and Materials
can help solve these...

IC6 Relevant Information to Share

- **Video (4min) IC6 Presentation at MI-3 Ministerial meeting in Malmö:**

<https://www.youtube.com/watch?v=3fLDo26VEJc&t=51s>

- **Video (5min) Nobel Laureate Molina** referring to this initiative as “a second revolution in science”:

<https://www.youtube.com/watch?v=HAI7dJilwJ0&t=1s>

- **Website:** <http://mission-innovation.net/our-work/innovation-challenges/clean-energy-materials-challenge/>

- **Materials Acceleration Platform Report:**

<http://mission-innovation.net/wp-content/uploads/2018/01/Mission-Innovation-IC6-Report-Materials-Acceleration-Platform-Jan-2018.pdf>

- **Nature paper:** Accelerating the discovery of materials for clean energy in the era of smart automation:

<https://www.nature.com/articles/s41578-018-0005-z>