

World Economic Forum Centre for 4th Industrial Revolution (C4IR)

C4IR-verkoston kuuluvan sivutoimipisteen perustaminen Suomeen

Hankeryhmän avauskokous
7.2.2020

Digiteollinen murros

The technological innovations of the Fourth Industrial Revolution are putting **enormous pressure on regulatory frameworks**. The old top-down and linear approach to policy is no longer feasible.

There is an **urgent need for a faster, more agile approach** to governing emerging technologies and the business models they enable. A global multistakeholder approach focusing on social inclusion is imperative.

The Centre for the Fourth Industrial Revolution Network (C4IR Network) was launched in March 2017 to **co-design the policies needed to accelerate the adoption of emerging technologies** in the global public interest.

Centre for 4th Industrial Revolution

The Centre for the Fourth Industrial Revolution Network's vision is to help shape the development and application of emerging technologies for the benefit of humanity.

The C4IRNetwork's mission is to **co-design, test and refine** governance protocols and policy frameworks to maximize the benefits and minimize the risks of advanced science and technology.

To accelerate **impact and drive change**, the C4IR Network brings together governments, business, dynamic start-ups, civil society, academia and international organizations to develop, implement and scale up agile and human-centred **pilot projects** that can be adopted by policy-makers, legislators and regulators worldwide.

Centre for 4th Industrial Revolution

The World Economic Forum launched the Centre for the Fourth Industrial Revolution Network as:



★ A space for global cooperation

The Network is dedicated to co-designing policy frameworks and governance protocols –including laws, regulations, norms and best practices –that accelerate the application of science and technology in the global public interest.

★ A “do-tank”

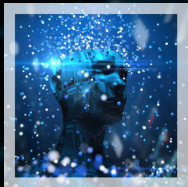
Partner governments and companies will co-design and pilot these frameworks and protocols for rapid iteration and scale. The Centre for the Fourth Industrial Revolution Network is not a think-tank, but rather a “do-tank”.

★ A champion for ethics and values in technology

All policy principles, frameworks and regulations developed by the Network will prioritize ethics and values.

Centre for 4th Industrial Revolution

C4IR portfolios of emerging technologies



**Artificial Intelligence and
machine learning**



**Autonomous and
Urban Mobility**



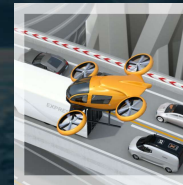
**Blockchain and Distributed
Ledger Technology**



Data Policy



Digital Trade



Drones and Tomorrow's Airspace



**Fourth Industrial Revolution
for the Earth**

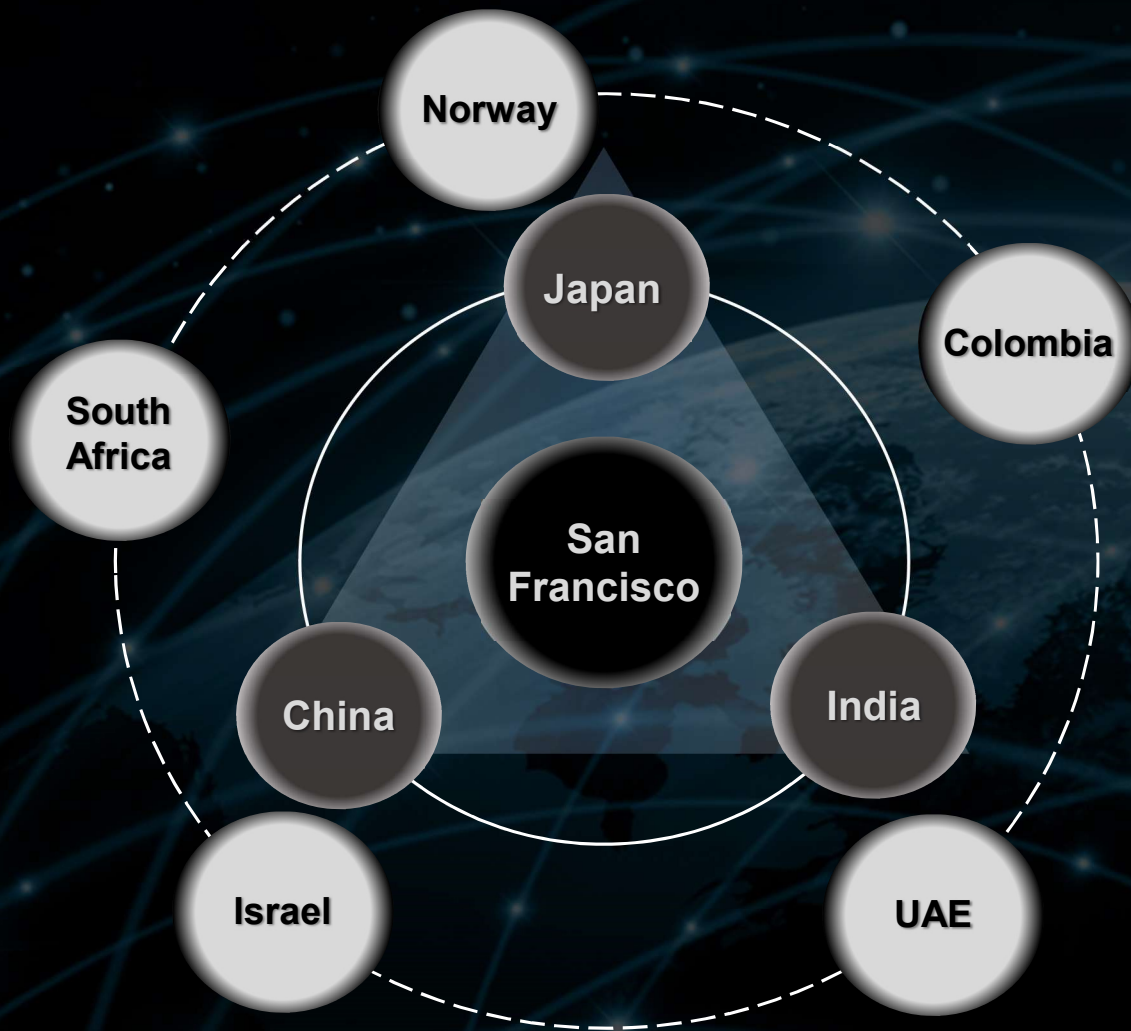


**Internet of Things, Robotics
and Smart Cities**



Precision Medicine

C4IR network



★ Global Centres

Centres in China, India, Japan and the US, where the Forum has had long-standing operations and a strong business partnership base, are **managed by the Forum**.

★ Affiliate Centres

Centres in other strategic markets will be **managed by trusted partners** to maximize flexibility based on local and regional priorities and business interests.

★ Government partners

Government partners will **host, support and advance** the development and deployment of pilot frameworks aligned with platforms launched by the C4IR Network.

★ Close collaboration

Organizations partnering with the C4IR Network can send fellows to other Centres, creating continuous **knowledge sharing** throughout the Network.

C4IR Four-Phase Methodology

Phase 4

Scaling and adoption

Globally disseminate the protocols and frameworks from successful pilots and support international adoption

Phase 3

Prototype, test and iterate

Execute short pilot projects with government and industry partners to test governance protocols and policy frameworks / Collect key learnings from pilot

Phase 2

Framework development

For each focus area selected in the scoping phase, identify the policy or governance changes most likely to achieve systemic change / Co-design governance protocols and policy framework

Phase 1

Opportunity mapping

Landscape review of existing efforts / Specify government and industry needs / Identify project focus areas

Value for partners

1. Custom governance **tools and frameworks** for public sector partners to address specific challenges related to Fourth Industrial Revolution technologies within their jurisdiction, created and piloted with the Centre's user-centered design methodology.
2. Unique **insights** in new forms of governance and new technology applications, allowing policymakers and thought leaders working with the Centre to stay ahead of the curve.
3. **Visibility** as a global leader committed to innovation and implementation of new technologies that matter to society.
4. **Connection with** cutting-edge technology **innovators** in the San Francisco and Silicon Valley area as well as **specialists** developing new governance models for the Fourth Industrial Revolution across the C4IR Network.
5. Development of individuals as fellows in-residence at the Centre in San Francisco, as well as a **network of peers and pioneers** across business, academia and civil society.
6. **Access to the Centre's innovative campus in San Francisco** to host delegations from partner governments in a multi-stakeholder environment including key experts from Silicon Valley.

Commitments

Partnering with the C4IR Network in San Francisco requires:

1. Committing to co-develop and pilot policy frameworks and governance protocols with the C4IR Network.
2. Sending a Fellow to the Centre in San Francisco for 12 –24 months that will work in a 6 –12 person team on a specific technology or technology application and act as a focal point between the Government and the Centre.
3. Supporting broader scaling of Centre's policy frameworks and governance protocols to other governments in the region and globally.
4. Sharing the Centre costs through financial contribution of 40,000 USD for operational costs associated with hosting a Fellow at the Centre.
5. Identifying a senior official (Ministerial level) from the focal institution to join the Global 4IR Council for the project selected for the collaboration.

Next Steps

Partnering with the C4IR Network in San Francisco requires:

Next steps in developing the collaboration with Finland

1. Identifying Center project(s) that are of highest relevance for Finland and key stakeholders
2. Discuss priority project details and ongoing policy initiatives in Finland with technical policy experts at national and sub-national level
3. Identify potential Fellows from Finland (at national or sub-national level) to join the Centre
4. Develop formal partnership through a Collaboration Agreement
5. Identify suitable senior official to join relevant Global 4IR Council for the Centre project selected for the collaboration.

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C4IR-verkostoon kuuluvan sivutoimipisteen perustaminen Suomeen

**Kansallisen valmistelutyön ja hankeryhmän
toiminnan organisointi**

Hanketyön organisointi

Hankeryhmä ja sen toiminta

- ★ Hankeryhmän koko & osallistujat / edustetut toimitahot
- ★ Ryhmän toiminta koordinoitua, ketterää ja vapaamuotoista
- ★ Määritetään kokouskalenteri vuodelle 2020 (kokous 1-2kk välein)
- ★ Kokouksista laaditaan päätöspöytäkirjat
- ★ Hanketta koskevassa tiedonvaihdossa ja viestittelyssä mukana koko hankeryhmä – edustaja jakaa tietoa eteenpäin omassa organisaatiossaan
 - ➡ ”Yhden luukun periaate”
- ★ Digitaalinen asianhallintajärjestelmä /asiakirjapankki (esim. Tiimeri)

Ulkoinen viestintä

Erillisen neuvotteluryhmän nimeäminen (WEF/C4IR-prosessi)

World Economic Forum Centre for 4th Industrial Revolution (C4IR)

C4IR-verkoston kuuluvan sivutoimipisteen perustaminen Suomeen

Suomen C4IR-sivutoimipisteen toimialan määrittely



Missio: Suomi eettisen ja kestäväⁿ datatalouden edistäjänä

Eettisyys

- ★ Ihmiskeskeisen datatalouden periaatteiden jalkauttaminen globaalin yhteen toimivuuden aikaansaamiseksi
- ★ Toimia yhteisen ihmiskeskeisen, menestyvän ja tasapuolisen datatalouden vaikuttajana ja eteenpäin viejänä

Kestävä kehitys

- ★ Ilmastokysymysten ratkaisu kestäväⁿ datatalouden avulla
- ★ Energia- ja resurssitehokkuus sekä vähähiilisten teknologioiden soveltamisen ja käytön kehittämisen edistäminen
- ★ Rohkeana edelläkävijänä kohti hiilineutraalia tulevaisuutta, kestäväⁿ ja vastuulliseen kulutukseen nojautuen



Suomen C4IR-toimipisteen erityisosaaminen

- ★ Reilu datatalous
- ★ Maas (Mobility as a Service)
- ★ MyData (omadata-malli, jossa ihmisille annetaan mahdollisuus hallinnoida, siirtää ja jakaa tietojaan)
- ★ Terveystieto (terveysdatan hyödyntäminen hoitoprosessissa, tutkimuksissa ja uusien liiketoimintamallien mahdollistajana)