



SÄHKÖISEN LIIKENTEEN ROOLI OSANA EU:N JA SUOMEN HUOLTOVARMUUTTA

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1000 EUROPE'S FASTEST GROWING COMPANIES | 2020-2025

BACKGROUND AND THREE HATS



Head of government relations and partnerships – Virta



Chairman of the board – Electric mobility association of Finland



Board member & ex-CIO – Intelligent transportation society of Finland

VIRTA IN A NUTSHELL

1,000+ companies and organisations in 36 countries globally operate their EV charging services on the Virta platform.

2013

founded in Helsinki

+120,000*

EVSEs operational

3,200 MW*

of connected capacity

612 M€*

worth infra connected

+200

employees

+550,000*

EVSEs accessible incl. roaming

+ 1 200 000

Registered EV drivers

Every 1,5 seconds

a charging event occurs in the Virta network

8 offices

Helsinki (HQ), Bangkok, Berlin, Bucharest, London, Paris, Singapore and Stockholm and presence in the Benelux, Kuala Lumpur, Madrid, Melbourne, Milan.

+64%

coverage in the public charging network in Europe (5% own network +58% through roaming)

+11 million

litres of gasoline replaced in a month (Jan 2024)

103,833 t CO2e

Scope 4 positive climate impact in 2022
Scope 1 & 2 14 t CO2e
Scope 3 19 697 tCO2e



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2020-2025

Security of supply consist of:

- preparing society for possible crises and disruptions
 - business continuity management by securing vital functions in key sectors: food supply, **energy, logistics and transport**, healthcare, finance, industry and **digital functions**
 - a broad-based operating model that covers the whole of society.
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- Well-functioning markets and a competitive economy are the foundation of security of supply.
 - Cooperation between the authorities, business life and civil society is essential in security of supply activities.
 - The ministries are responsible for the preparedness of their own administrative branch.
 - Security of supply is maintained through a network coordinated by the National Emergency Supply Agency.

WHAT DOES SECURITY OF SUPPLY MEAN IN FINLAND?



THREATS, RISKS AND INTERDEPENDENCIES...

- TERRORISM
- LOGISTICS DISRUPTIONS
- CYBER ATTACKS
- INFORMATION SYSTEM THREATS
- EXTREME WEATHER PHENOMENA
- ENERGY SHORTAGE AND DEPENDENCY
- DANGEROUS INFECTIOUS DISEASES
- USE OF MILITARY FORCE

...TURN ALL THE COGS OF THE CIVIL SOCIETY ENGINE

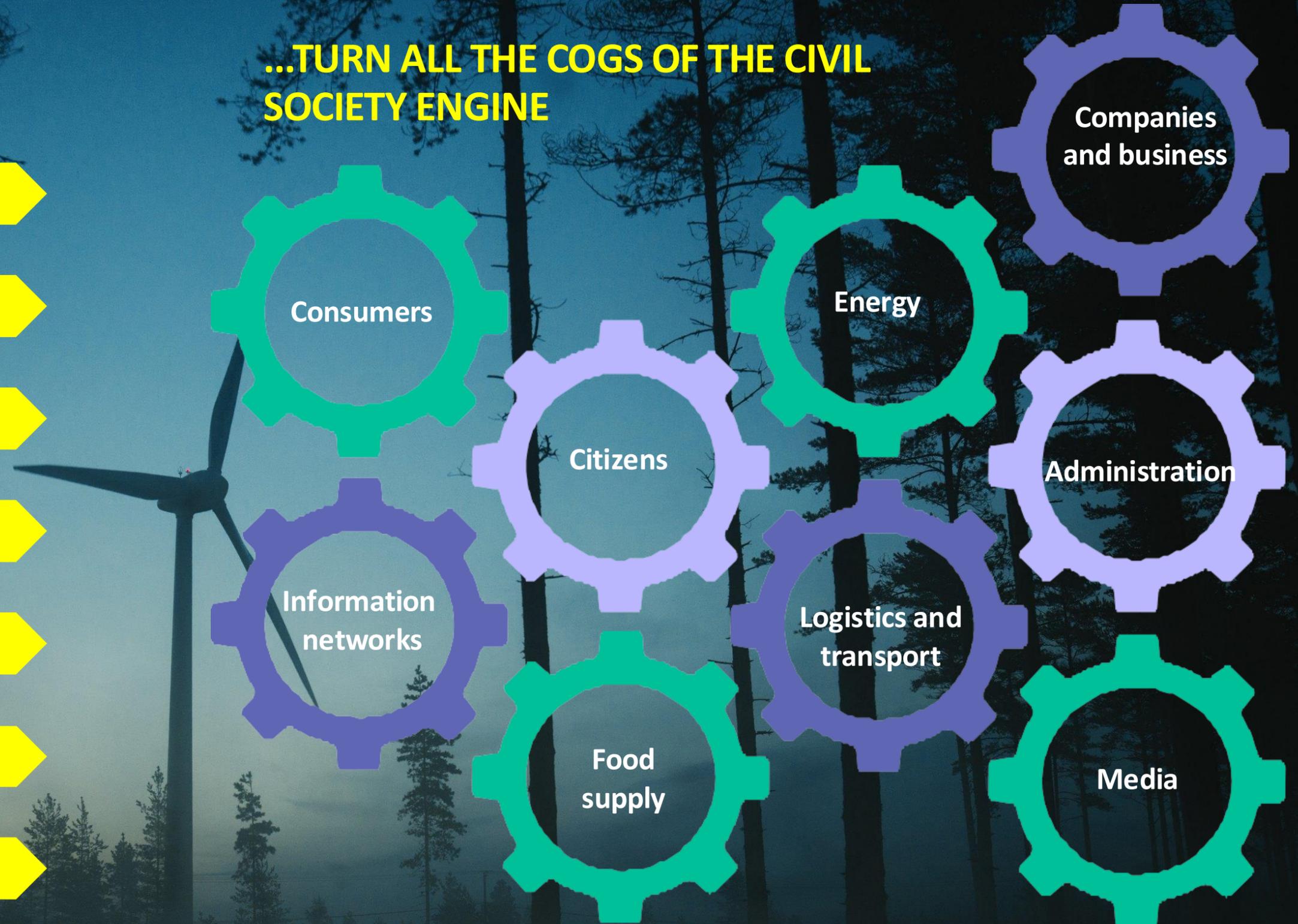
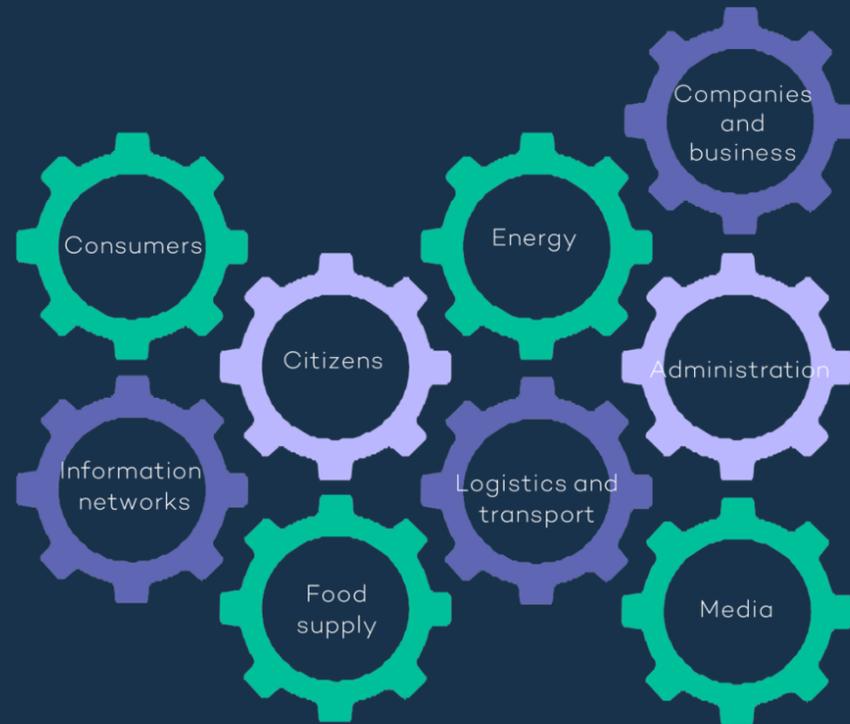


Image: Emergency supply agency 2025

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THREATS, RISKS AND INTERDEPENDENCIES... AND AN ADDITIONAL LAYER TO COMPLICATE THINGS FURTHER



THREATS, RISKS AND INTERDEPENDENCIES

LOGISTICS DISRUPTIONS

ENERGY SHORTAGE AND DEPENDENCY

Consumers

Information networks

Citizens

Food supply

Energy

Logistics and transport

Company and business

Administration

Media



HOW CAN ELECTRIC MOBILITY ENHANCE RESILIENCY AND MITIGATE KEY RISKS?



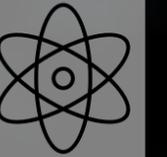
Increase energy independency and security both on national and EU level.

Enable fossil fuel reserves to last longer in crisis situations.



Power up the energy system— EVs form up to 9 % of EUs annual power supply by 2040.

Increase resiliency of transport system energy distribution.



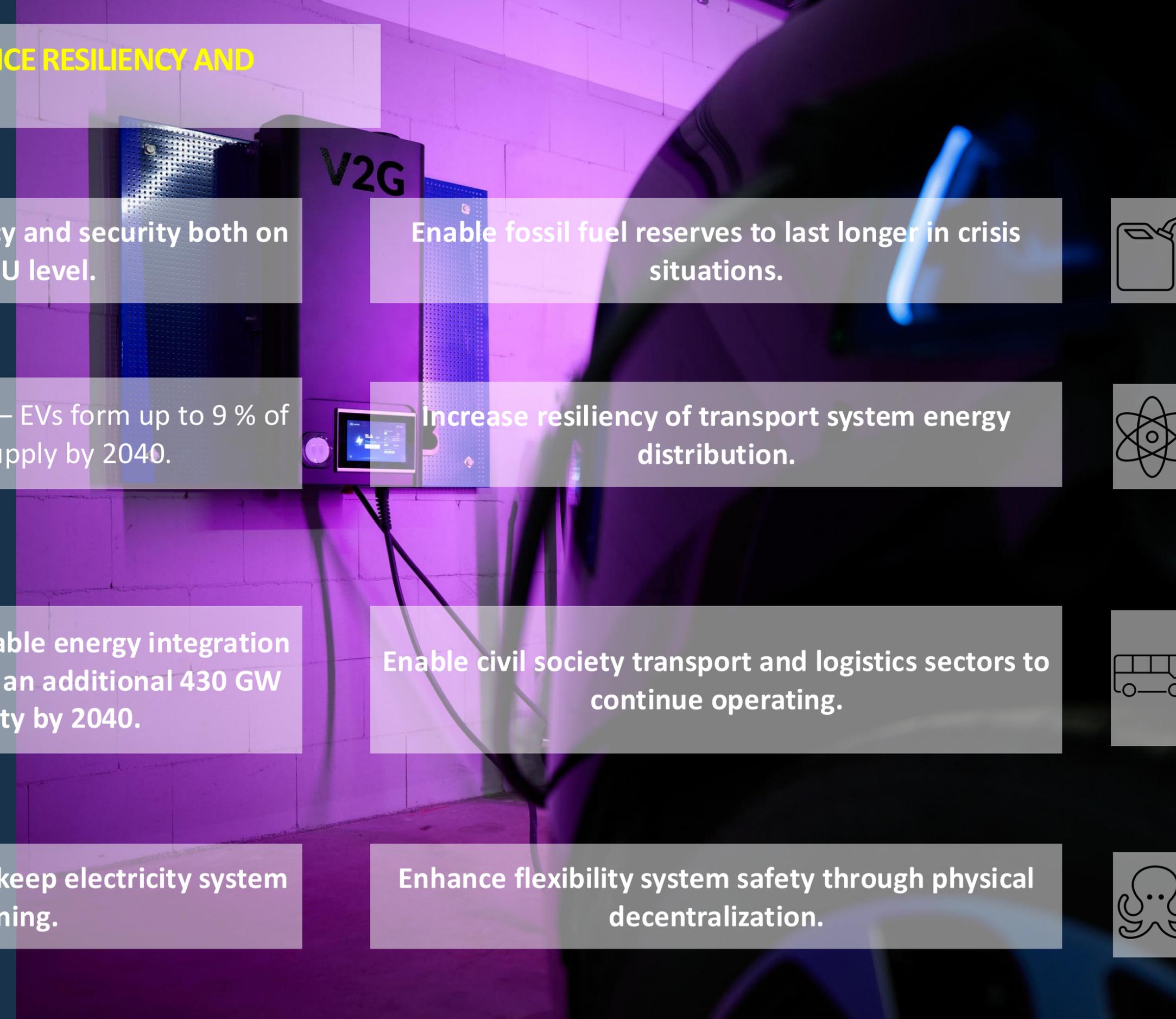
Increase independent renewable energy integration – V2X-charging could enable an additional 430 GW of solar PV capacity by 2040.

Enable civil society transport and logistics sectors to continue operating.



Provide flexibility needed to keep electricity system up and running.

Enhance flexibility system safety through physical decentralization.



8 How can Finland enhance our national and EU level resiliency?

- Finland has embedded various resiliency and safety measures to its DNA and especially to the non-visible cooperation relationship between government officials and companies.
- At the heart of this cooperation is the Finnish National emergency supply agency and it's pools consisting of companies from different industry sectors.
- During the past couple of years, this cooperation has extended to the electric mobility infrastructure ecosystem.
- How can we make ourselves and Europe more resilient and safer based on this cooperation?



9 Answer to the questions: Export Finnish collaboration model

- Finnish collaboration model is built around following corner stones:
 - **Information sharing** – Industry pools, formed of companies providing critical services to the Finnish society, and working under Finnish National emergency supply agency in a close cooperation with central industry associations share non-public security information between each other.
 - **Planned exercises and system level testing** – Pools and their members conduct preplanned exercises that cover the whole EV ecosystem.
 - **Technical drills** – Companies in the pools conduct private technical drills and tests with accredited third-party service providers and share information on possible vulnerabilities.
 - **Bridging the gap between government organizations and private companies' crisis management processes** – communication and crisis management processes differences are adhered to and converged leading to a crisis proof management system.





THANK YOU!

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