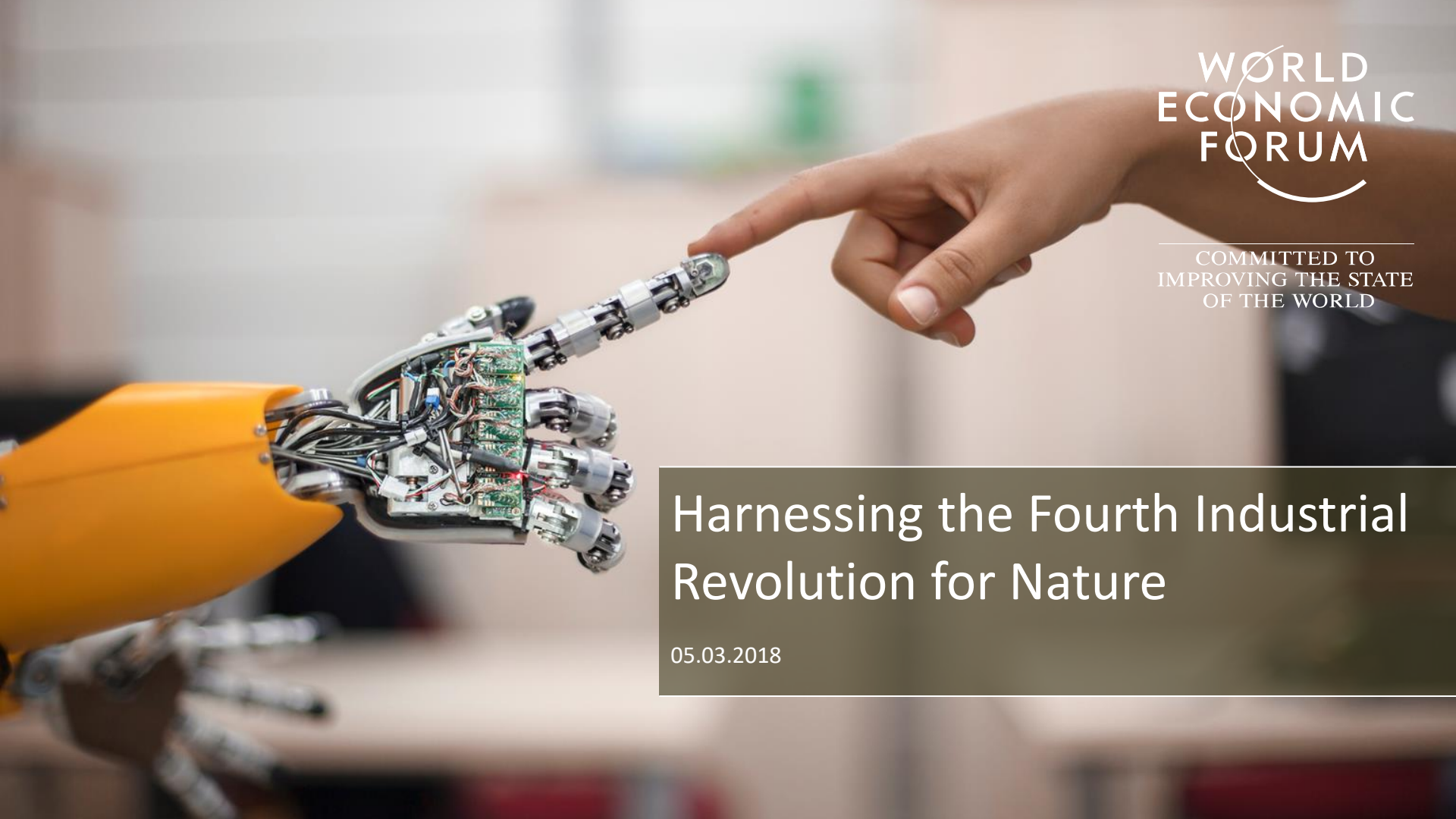

WORLD ECONOMIC FORUM

COMMITTED TO IMPROVING THE STATE OF THE WORLD

Harnessing the Fourth Industrial Revolution for Nature

05.03.2018

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Macintosh SE

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SAMSUNG
Galaxy S6

artificial intelligence
machine learning

AR / VR
mixed reality

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advanced
sensor platforms

(x)D printing

technologies driving the 4IR

biotechnologies

autonomous
vehicles

new materials

?????

new computing
technologies

geo-engineering

Fourth Industrial Revolution technologies *could* :

create new forms of agency	provide a foundation for global governance	create models for better management of ecosystems	help secure the world through new forms of transparency	inspire new data regulations and policies
shape new communities with both local and global reach	usher in an era of sustainable products and services	Rapidly mitigate climate change and support ecosystem adaptation	promote clear accountability and data-driven decision making	spur innovation and new forms of growth

Fourth Industrial Revolution technologies *could* :

compromise human agency	undermine the traditional roles played by the nation state	have unanticipated consequences that irreversibly damage ecosystems	democratize the ability to make massively destructive weapons	render existing online security protocols useless
dissolve communities, institutions, and social structures	produce non-degradable and toxic products	have negative effects on the climate and environment	obscure lines of accountability for decision-making	make economic systems more fragile and volatile

Challenges

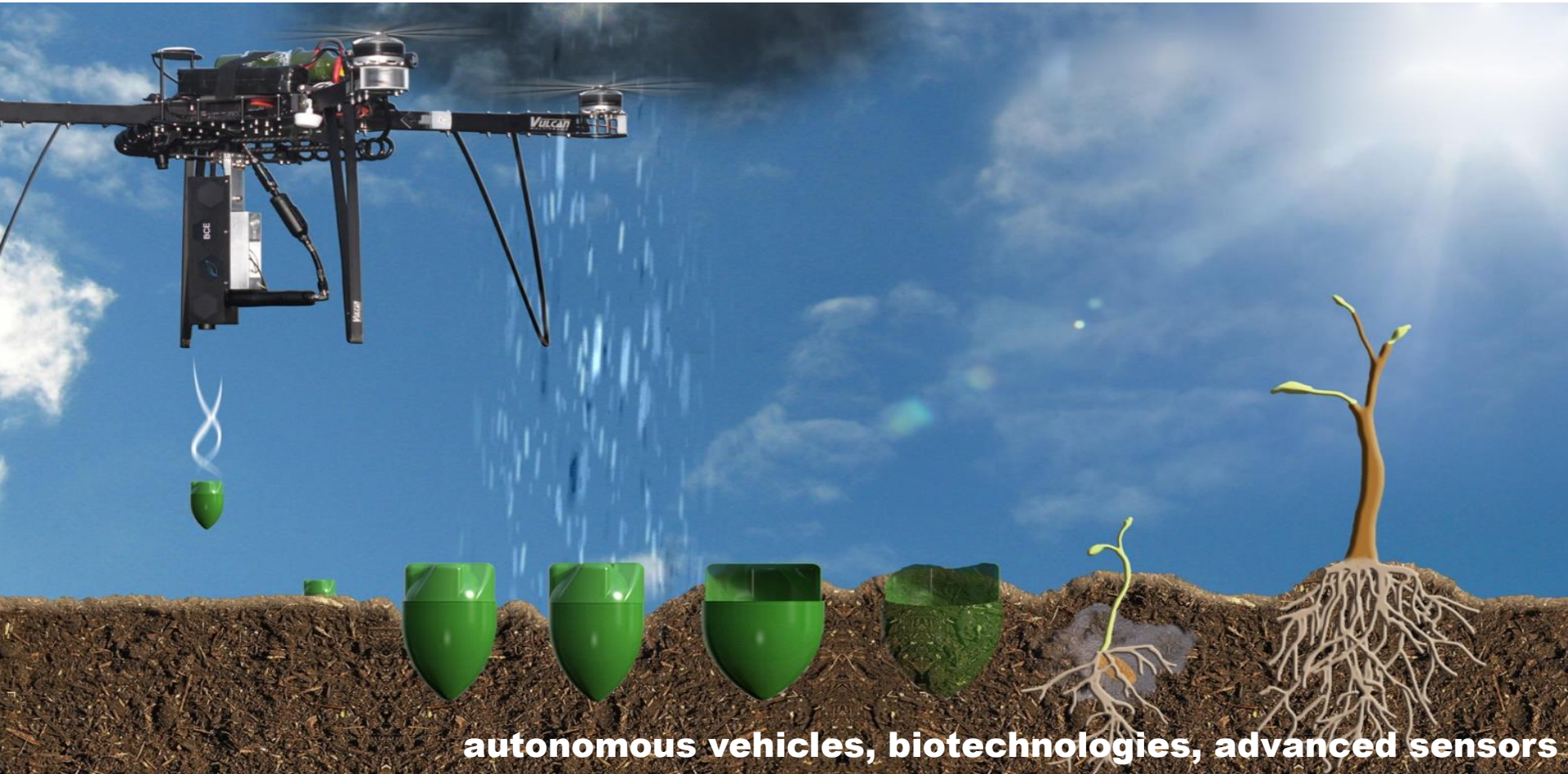
Who gains?

Who loses?

Who are we?

WEATHER
INSURANCE
SEED
CROP CARE
COMMODITIES
FINANCING
MACHINERY
FARMER
STORAGE
FIELD HISTORY
COST HISTORY
CROP SCOUTING
ANALYSIS
TRANSPORT

Ecosystem restoration - land



Ecosystem restoration - ocean

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