



AutonomouStuff

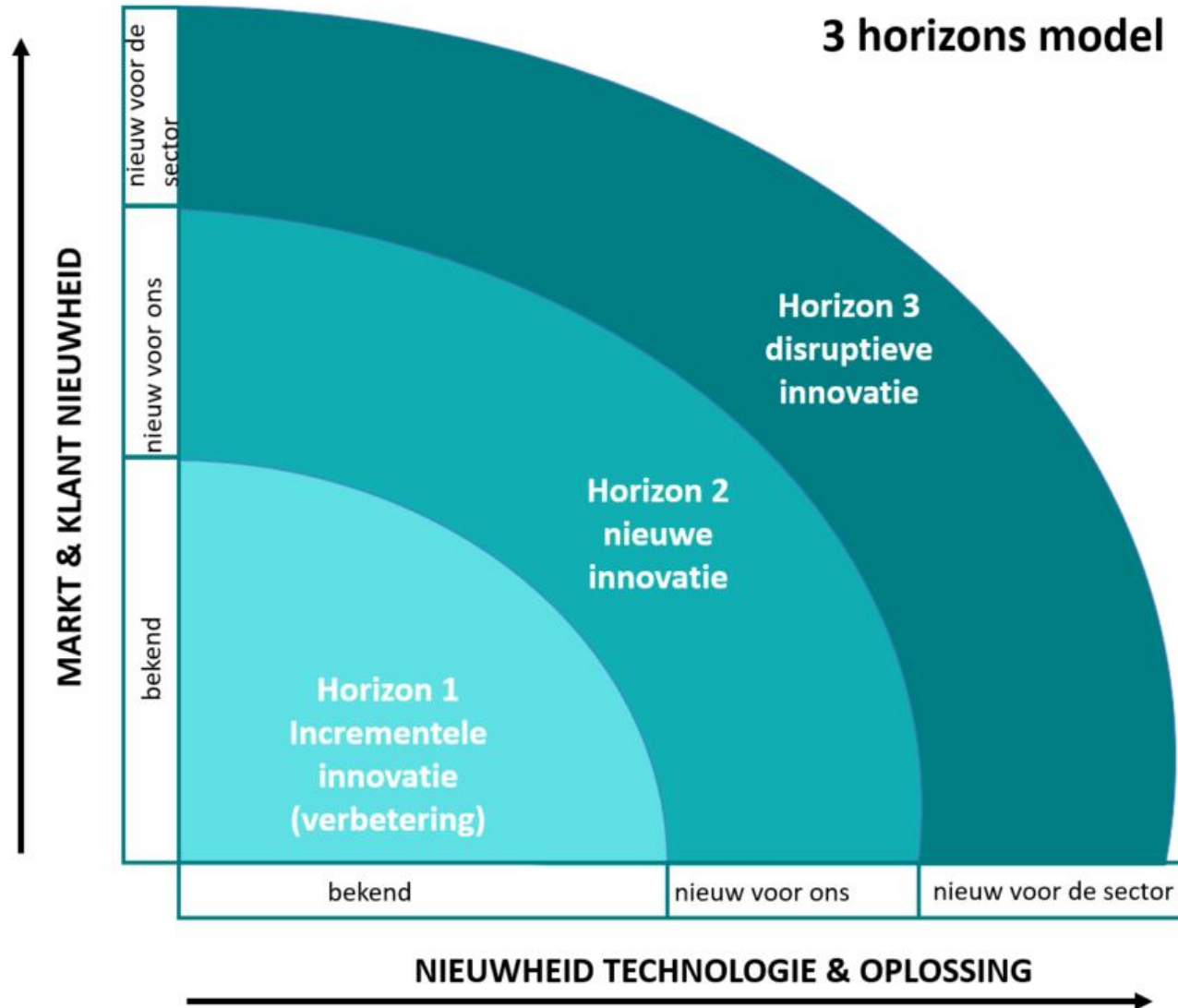
een weg naar robotisering en verder







Three Horizons Model - McKinsey



H1 - Smart

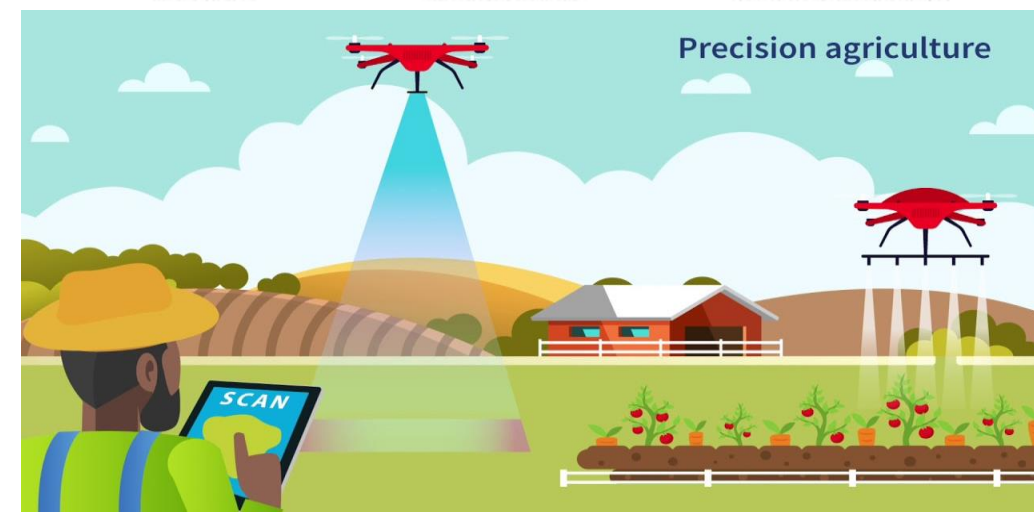
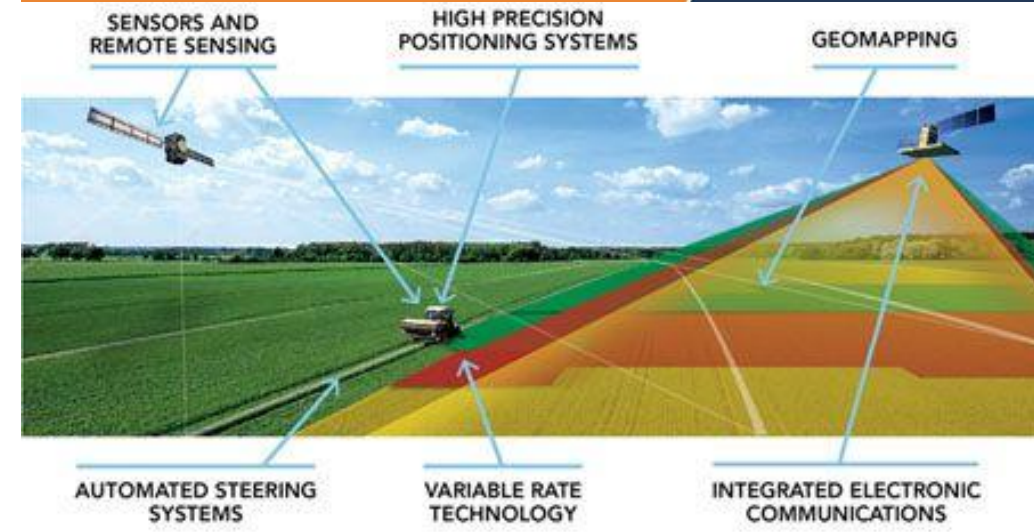
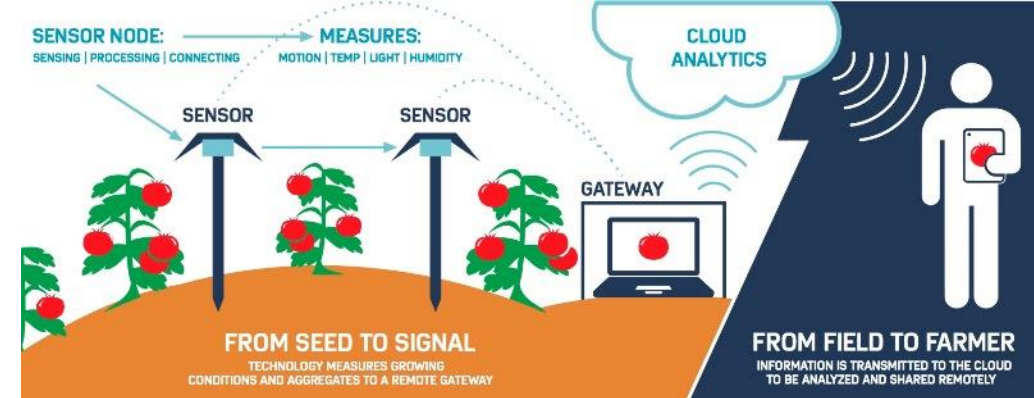


H2 - Autonoom



Groeimodel

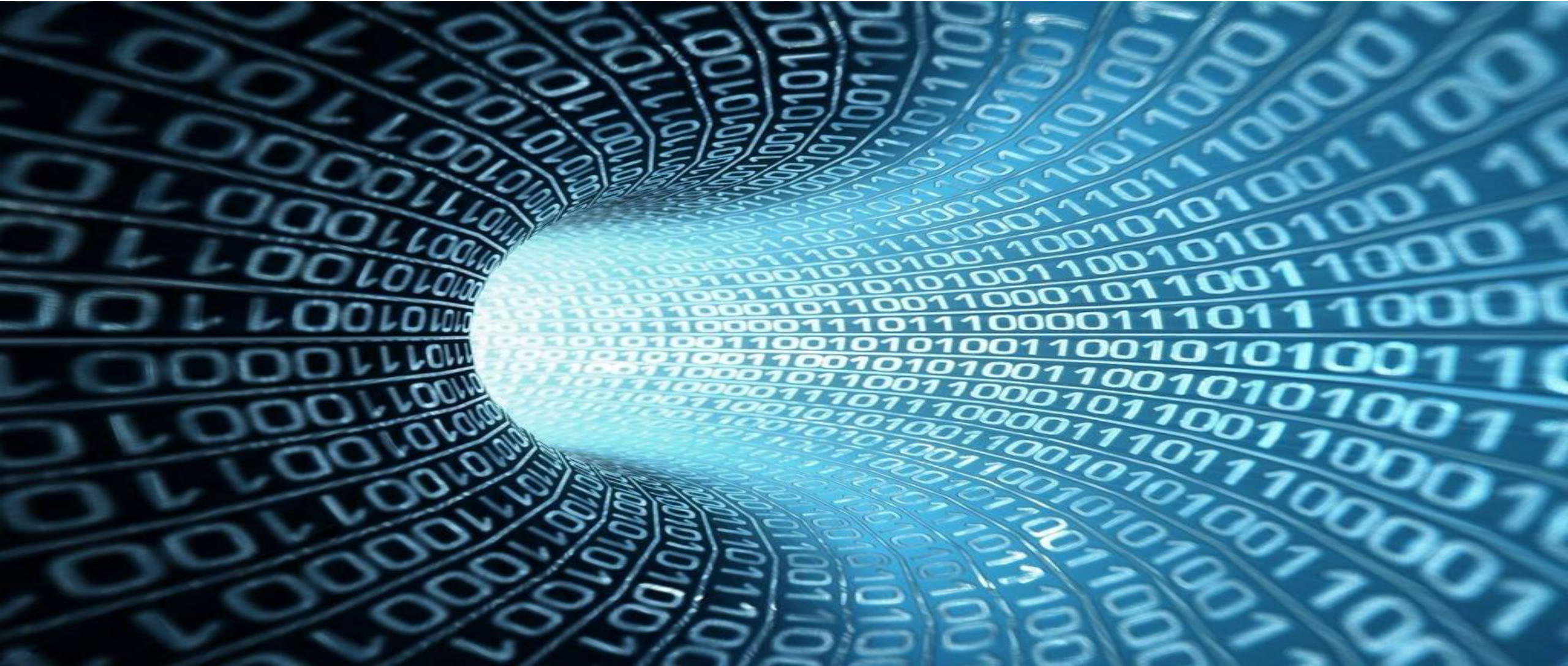
- Sensoren; LoRa, LTE-M
- +
- Locatie; GPS / Satelliet
- +
- Beelden; 5G (4k/8k)



= Autonom / Robot

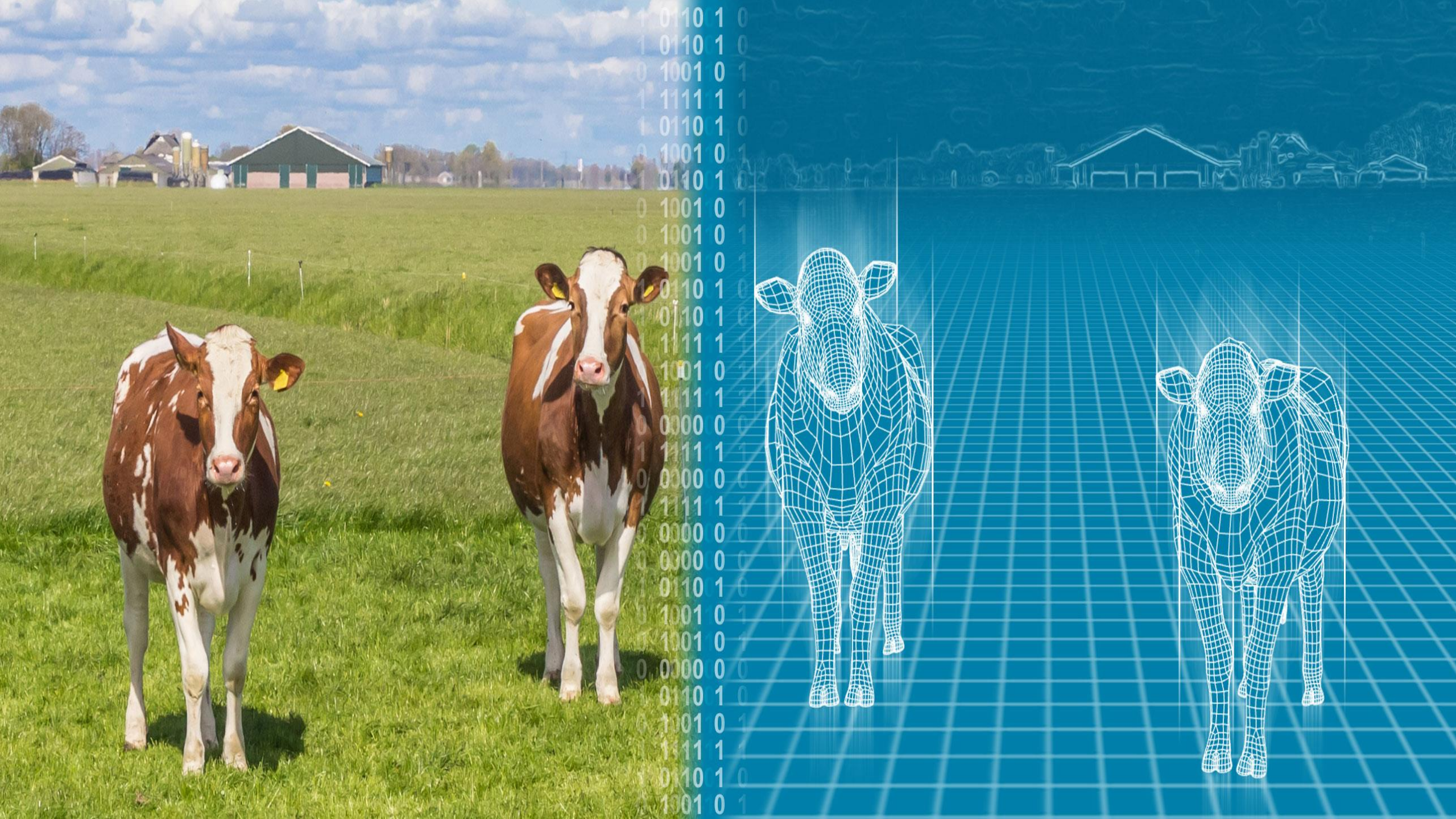


Data / AI (algoritmen)



H3 – Digital Twin







4G

5G

Experimenten



Valthermond -WUR







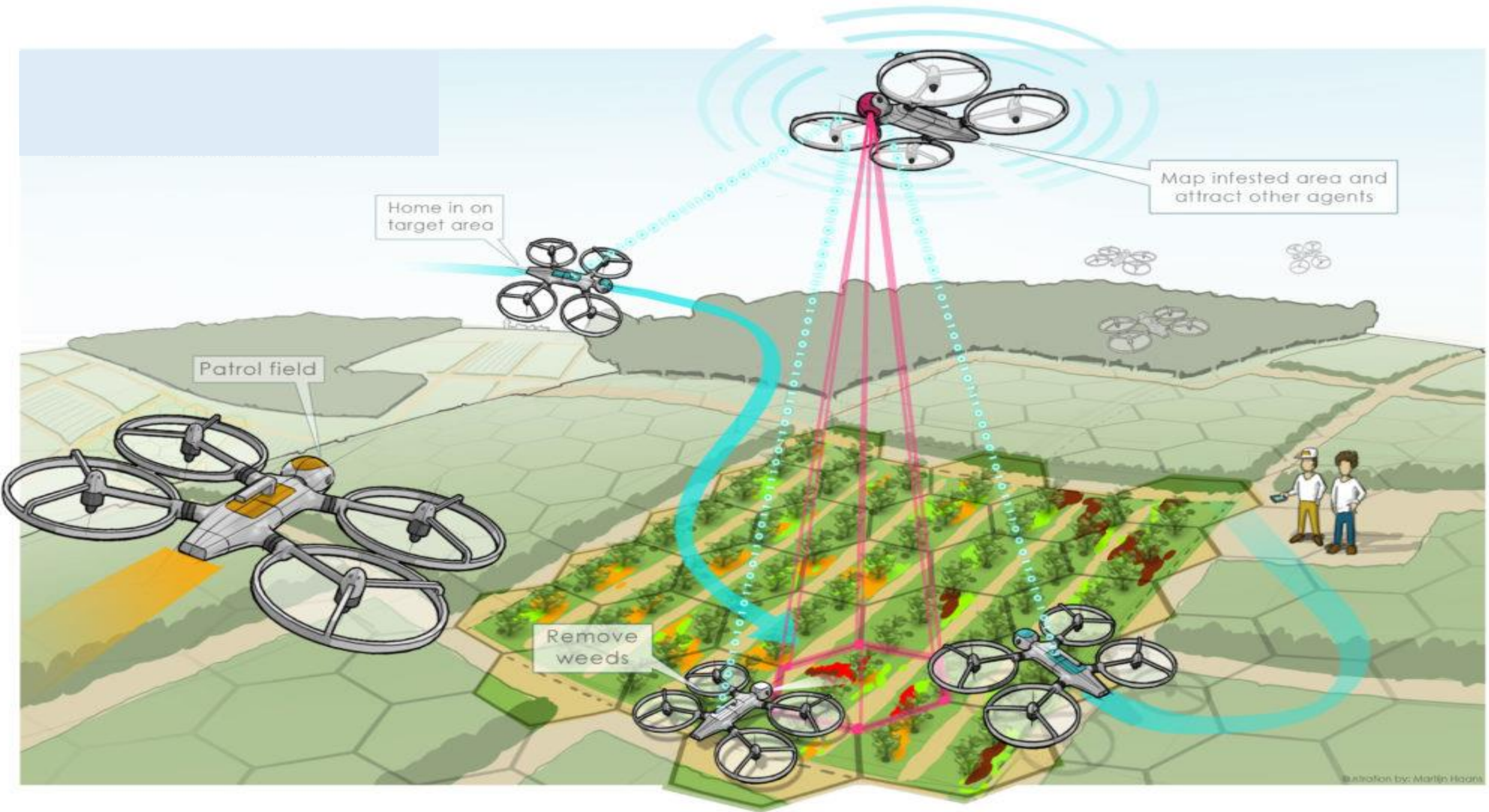
Robotti

AGROINTELLI

WAGENINGEN
UNIVERSITY & RESEARCH

AGROINTELLI

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A wide-angle photograph of a paved road with double yellow lines curving through a desert landscape. The road is flanked by sand dunes and sparse, low-lying vegetation. In the distance, a range of mountains is visible under a clear, light blue sky. The overall scene is bright and open.

Is er meer



UNITED STATES FREQUENCY ALLOCATIONS

THE RADIO SPECTRUM

RADIO SERVICES COLOR LEGEND

AERONAUTICAL MOBILE	INTER-SATELLITE	RADIO ASTRONOMY
AERONAUTICAL MOBILE SATELLITE	LAND MOBILE	RADIO DETERMINATION SATELLITE
AERONAUTICAL RADIOLOCATION	LAND MOBILE SATELLITE	RADIO LOCATION
AMATEUR	MARITIME MOBILE	RADIO LOCATION SATELLITE
AMATEUR SATELLITE	MARITIME MOBILE SATELLITE	RADIO NAVIGATION
BROADCASTING	MARITIME RADIOLOCATION	RADIO NAVIGATION SATELLITE
BROADCASTING SATELLITE	METEOROLOGICAL	SPACE OPERATION
EARTH OBSERVATION SATELLITE	METEOROLOGICAL SATELLITE	SPACE RESEARCH
FIXED	MOBILE	STANDARD FREQUENCY AND TIME SIGNAL
FIXED SATELLITE	MOBILE SATELLITE	STANDARD FREQUENCY AND TIME SIGNAL SATELLITE

ACTIVITY CODE

FEDERAL ACTIVITY	NON-FEDERAL ACTIVITY
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ALLOCATION USAGE DESIGNATION

SERVICE	EXAMPLE	DESCRIPTION
Primary	FIXED	Capital Letter
Secondary	MOBILE	1st Capital with lower case letter

The chart is a public information product of the Office of Spectrum Management and is not to be used for legal purposes. It is not a substitute for the Federal Communications Commission's Part 27 of the Code of Federal Regulations. For more information, visit www.fcc.gov.



U.S. DEPARTMENT OF COMMERCE
National Telecommunications and Information Administration
Office of Spectrum Management
JANUARY 2016

Open & Licentie

Licensed
spectrum

Exclusive use

Over 40 bands globally for LTE



Shared
spectrum

New shared spectrum paradigms

Example: 2.3 GHz Europe / 3.5 GHz USA



Unlicensed
spectrum

Shared use

Example: 2.4 GHz / 5 GHz / 60 GHz global

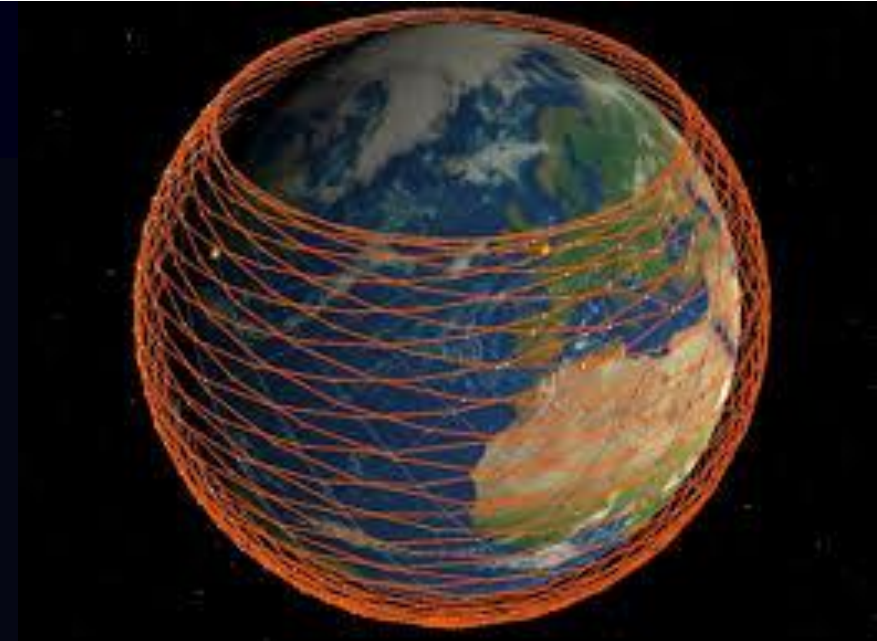


Terrestrial Communicatie

Bekijk SpaceX's Starlink 'Train' in the Sky

23 APR. 2020 | ⌚ ~2 min

Starlink Satellites



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Illustratief



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