

WOUTER DEMUYNCK

GRUUND





De betekenis van digitalisatie en automatisatie in de 6 grote maatschappelijke transities

Brugge, 23/09/2024



DRIVING CHANGE THROUGH SUSTAINABILITY



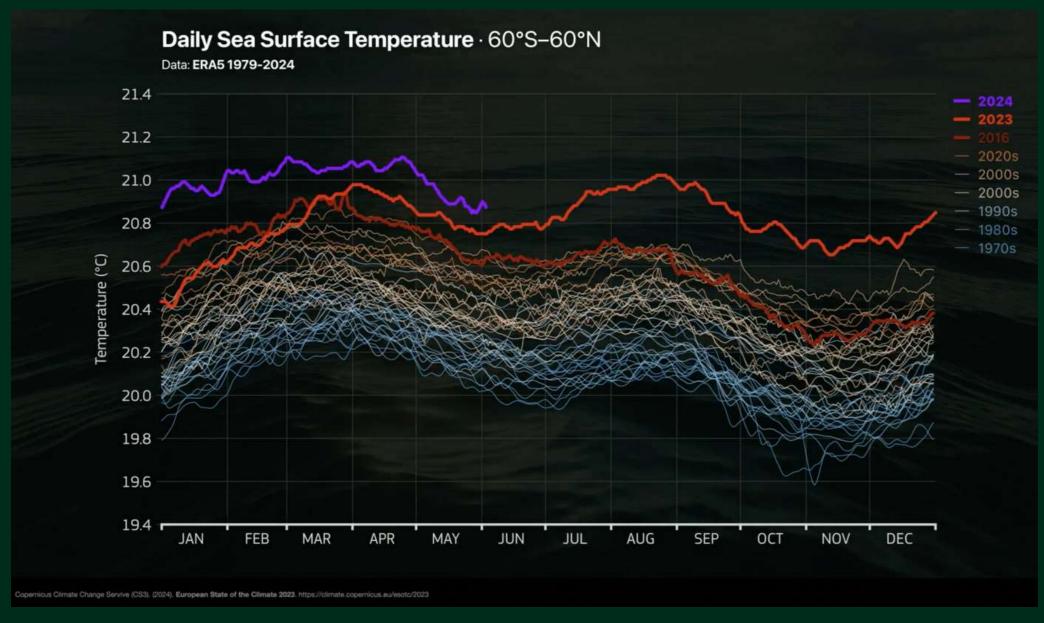
Wouter Demuynck

Change Driver Founder & Director GRUUND

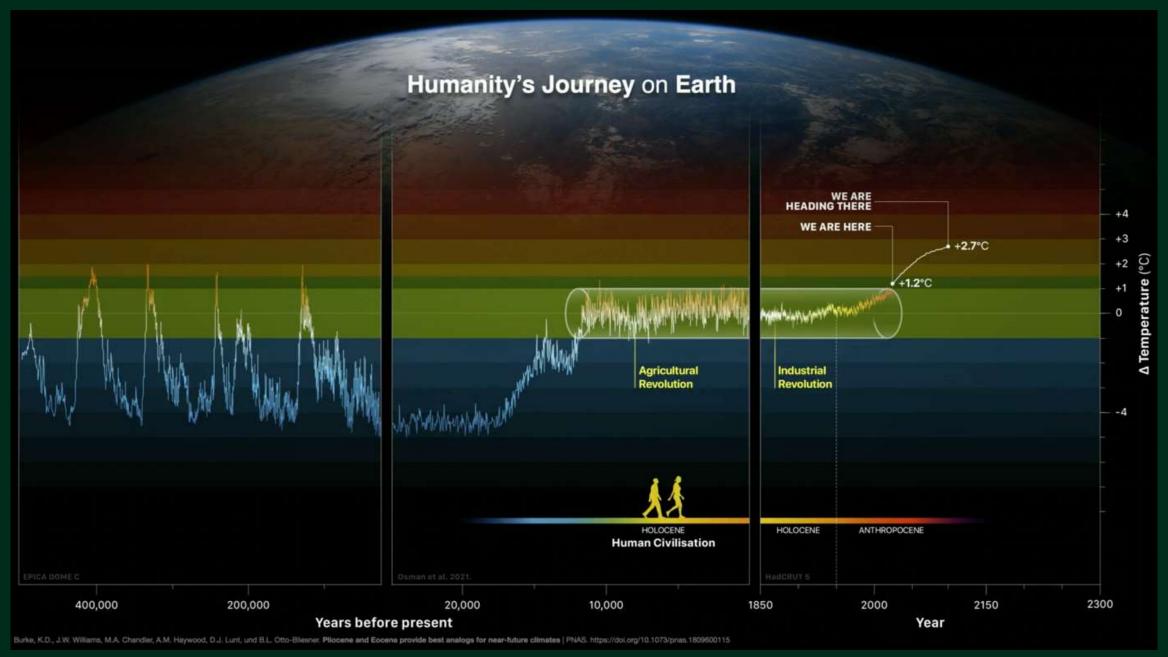
MEng, MRE, MBA
Sustainability Professional
Future-Fit Accredited Advisor
+30 jaar business experience

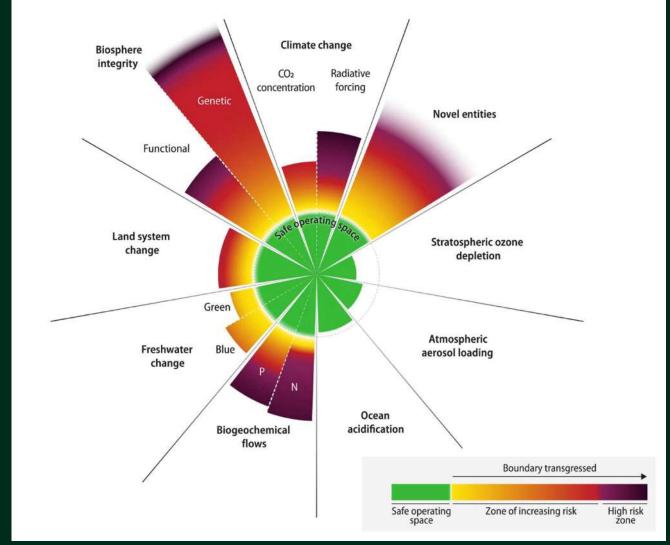






Oceaantemperatuur als kanarie in de koolmijn







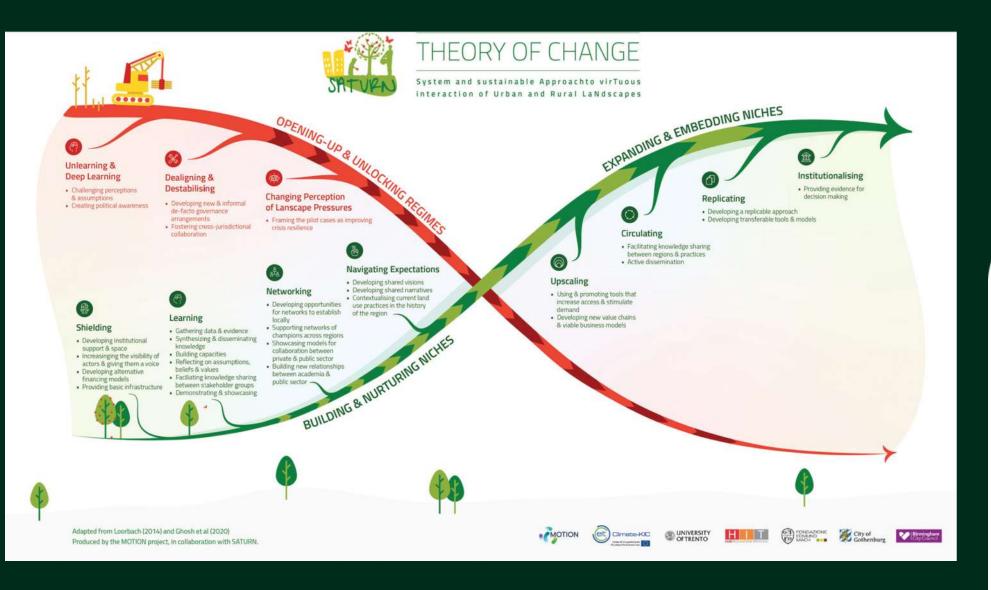
Surpassing Planetary Boundaries



Societal challenges



Economic challenges



Oude systemen maken plaats voor nieuwe



Degradation of ecosystems, as a result of land-use change and pollution



Depletion of resources, due to overconsumption and waste



Disparity in communities, exacerbated by inequality and discrimination



Disease in individuals, caused by unhealthy lifestyles and harmful workplaces



Disconnection from or by technologies, as a result of the digital divide and automation



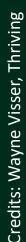
Disruption of infrastructure, due to natural disasters, pandemics, and human crises



Breakdown forces in society

Breakdown forces in **economy**

6 Forces of breakdown





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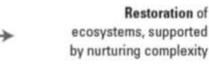
Disruption of infrastructure, due to natural disasters, pandemics, and human crises Let's not waste this good crisis

Triggers for transformation





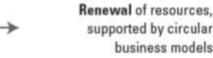
Degradation of ecosystems, as a result of land-use change and pollution







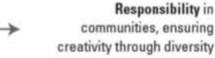
Depletion of resources, due to overconsumption and waste







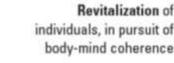
Disparity in communities, exacerbated by inequality and discrimination







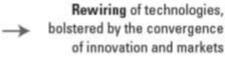
Disease in individuals, caused by unhealthy lifestyles and harmful workplaces







Disconnection from or by technologies, as a result of the digital divide and automation







Disruption of infrastructure, due to natural disasters, pandemics, and human crises





From breakdown to breakthrough

6 Transitions



Quid Market opportunities?

What can my business do?



ECOSERVICES economy to invest in natural capital and protect nature



CIRCULAR economy to invest in rewewable energy and closing the loop on resources



ACCESS economy to invest in economic opportunities for excluded groups in society



WELLBEING economy to invest in disease prevention and access to healthcare



DIGITAL economy to invest in innovation to tackle social and environmental challenges





THE SIX GREAT TRANSITIONS TO THRIVING IN NATURE, SOCIETY AND THE ECONOMY



DEGRADATION of ecosystems, due to landuse change and pollution



RESTORATION of ecosystems, through rewilding and regeneration



ECOSERVICES economy to invest in natural capital and protect nature



DEPLETION of resources due to overconsumption and waste



RENEWAL of resources. through biological and manufacturing cycles





CIRCULAR economy to invest in rewewable energy and closing the loop on resources



DISPARITY in workplaces and communities, due to inequality and discrimination



RESPONSIBILITY in workplaces and communities, through diversity and inclusion





ACCESS economy to invest in economic opportunities for excluded groups in society



DISEASE in society, due to poverty, lifestyles, work, and toxic environments



REVITALIZATION in society, through promotion of physical and mental health





WELLBEING economy to invest in disease prevention and access to healthcare



DISCONNECTION from or by technologies, due to the digital divide and automation



REWIRING of technologies that connect, empower and regenerate





DIGITAL economy to invest in innovation to tackle social and environmental challenges

Credits: Wayne Visser, Thriving



DISRUPTION of infrastructure and infrastructure, due to climate, pandemics and crises



RESILIENCE of infrastructure and institutions, for social and economic continuity





Hoe passen automatisatie en digitalisatie in de 6 transities?



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Gebouwbeheersystemen regelen klimaatneutrale energiesystemen, ventilatie, ... in functie van gezondheid, energie-efficiëntie, zomer- en wintercomfort...



Gebouwbeheersystemen



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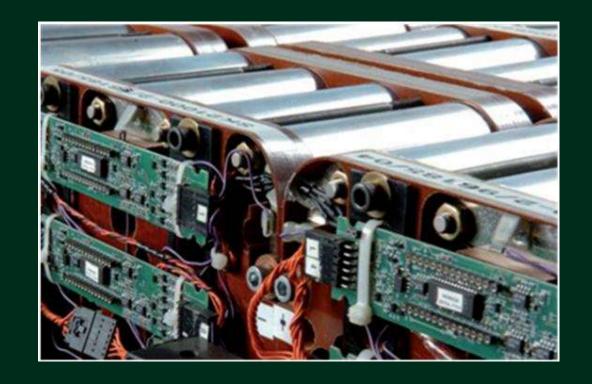
DIGITAL economy to invest in innovation to tackle social and environmental challenges





Energyville-VITO, IEA, e.a

> 80% Zon + wind + <u>batterijen</u> + vraagsturing + EU-transmissienet vormen de kostenoptimale Belgische elektriciteitsproductiemix







ECOSERVICES economy to invest in natural capital and protect nature





CIRCULAR economy to invest in rewewable energy and closing the loop on resources



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WELLBEING economy to invest in disease prevention and access to healthcare

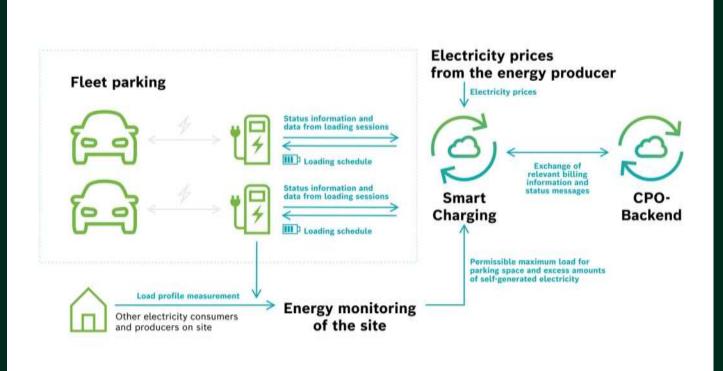




DIGITAL economy to invest in innovation to tackle social and environmental challenges



Load balancing en slimme EV-charging







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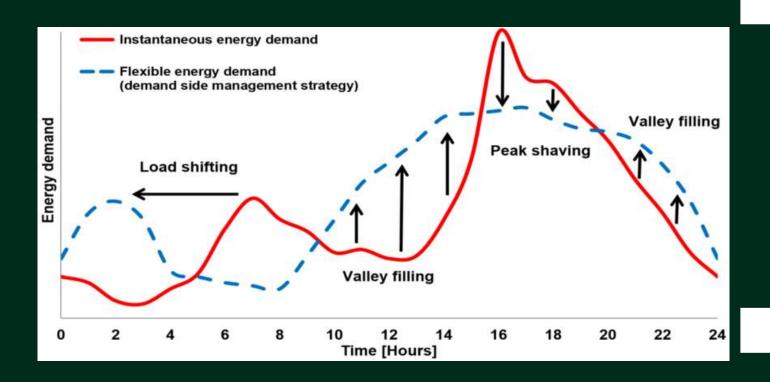
DIGITAL economy to invest in innovation to tackle social and environmental challenges



RISK economy to invest in capacity to prevent, adapt to and recover from crises

Elektrische mobiliteit

> 80% Zon + wind + batterijen + <u>vraagsturing</u> + EU-transmissienet vormen de kostenoptimale Belgische elektriciteitsproductiemix







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DIGITAL economy to invest in innovation to tackle social and environmental challenges



Optimaal zelf gebruiken van zelf gegenereerde hernieuwbare energie (zonnepanelen)





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DIGITAL economy to invest in innovation to tackle social and environmental challenges



RISK economy to invest in capacity to prevent, adapt to and recover from crises

Auto-consumptie PV

Energiemanagementsystemen regelen vraag naar aanbod



Vraagsturing elektrische huishoudtoestellen



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DIGITAL economy to invest in innovation to tackle social and environmental challenges



Optimaliseren van energie-efficiëntie Elektrificatie van processen waar mogelijk Waterstof (-afgeleiden) Restwarmte-uitkoppeling en -valorisatie



Industriële elektrificatie



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Slimme regelingen, aansturing warmtepompen,

•••



Energierenovaties van bestaande woongebouwen



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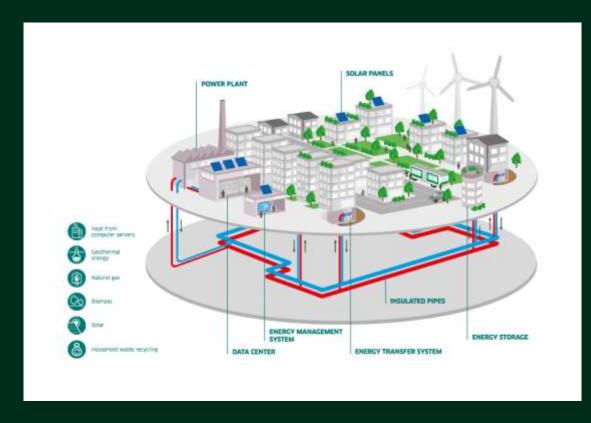


DIGITAL economy to invest in innovation to tackle social and environmental challenges





Warmtenetten voor verdeling van restwarmte of duurzame warmte (geothermie, ...) in zones met hoge energiedichtheid







ECOSERVICES economy to invest in natural capital and protect nature





closing the loop on resources



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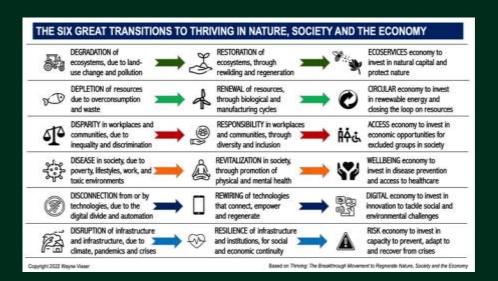
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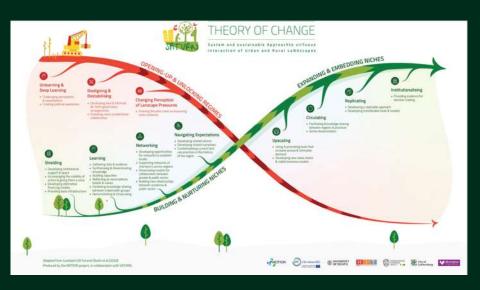




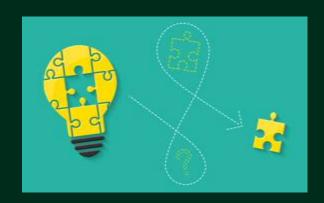
DIGITAL economy to invest in innovation to tackle social and environmental challenges







Digitalisering en automatisering ondersteunen de transities die onze samenleving, economie en natuurlijke ecosystemen kunnen regenereren.





CONTACT

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