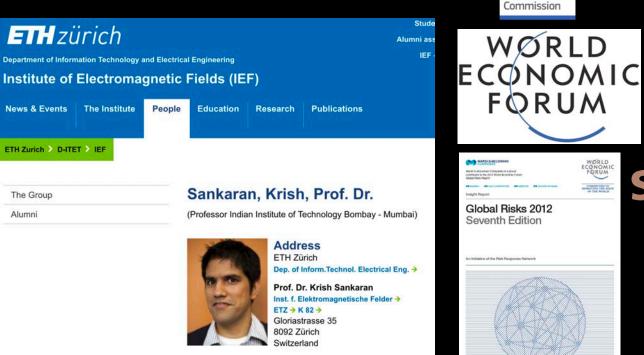
RADICAL INNOVATIONS GROUP FINLAND

Digitalisation, Decentralisation, Decarbonisation for Transport – D³T

Dr. K. Sankaran



CEO: Dr. K. Sankaran







SWISSMETAL



€ +41 44 633 80 11 → ksankaran@ethz.ch ->

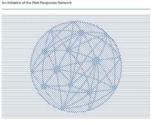
Alumni

WORLD ECONOMIC FORUM

COMMITTED TO DEPENDING THE STATE

European

Global Risks 2012 Seventh Edition





D³T

Digitalisation, Decentralisation,

and **Decarbonisation** for **Transport**



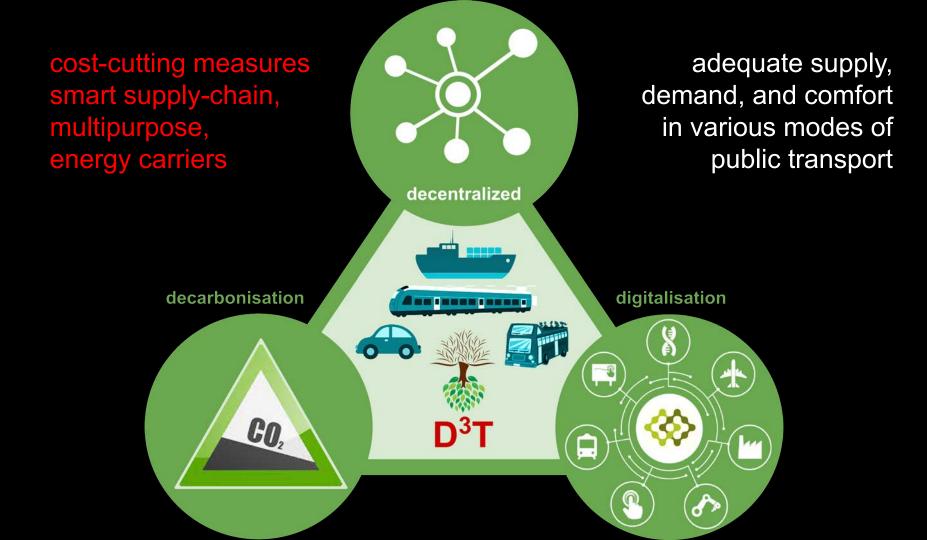
D³T

Digitalisation & Decentralisation

for Decarbonising Transport



"Emission-free Metro to the Sea" helping counties & countries reach their goal of zero emissions



Our value-add to transport sector

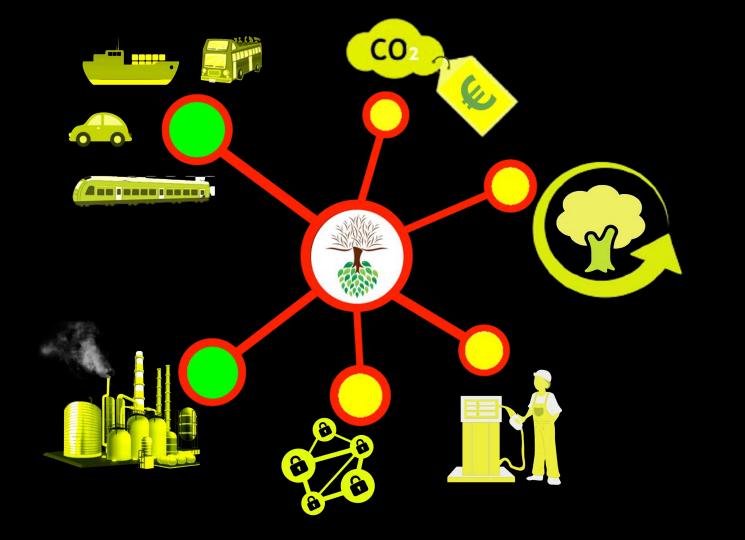


open harmonised clean transport and energy market

coherence with digitalization efforts in other sector

new business and investment opportunities

new job and socio-economic value





track low- or zero-carbon energy

from origin through every stage of transaction to consumer



smart D³T contracts

fuel type

vehicle ID

time & location

energy, water and other raw material footprints

smart contract ID : S11B5C101

source: blue hydrogen
type: CO₂ partially compensated
carbon footprint: 140 g CO2-eq / kWh
quantity: 1 tonne

quality compliance: complete issues: none

lot ID: 21 price / tonne: EUR 10 000 raw material origin: Finland process: water electrolysis with non renewable energy order type: trial

digitally signed by - Narendra Shah company - CAA International last hash: 555666447e2279b81466302b492c4b5f hash: 72daeb34706218326822d19bfa1a326d date & timestamp: 05.05.2021 15:40:45



smart contract ID : S11B5C101

fuel type: green hydrogen vehicle ID: EVF-910 (FIN) quantity: 30 kg time & location: 14:32:53 Vaasa HFS-X17

carbon footprint: 140 g CO2-eq / kWh water footprint: 300 g H2O-eq / kWh raw material footprint: 1000 g H2O-eq / kWh

price / kg: EUR 10 raw material origin: Finland process: water electrolysis with non renewable energy order type: trial

digitally signed by - Narendra Shah company - CAA International last hash: 555666447e2279b81466302b492c4b5f hash: 72daeb34706218326822d19bfa1a326d date & timestamp: 05.05.2021 15:40:45







connecting actors across

supply chain

from renewable energy an fuel producers to technology providers, government authorities & regulators, investors, and vehicle operators.



Thanks to the increasing network of renewable energy generating assets

our **D³T** solution could be easily integrated to existing assets



D³T can enable individuals, companies, smart devices & vehicles, renewable assets including battery systems

to interact and transact directly enabling digital orchestration at a scale that has never been done before.



D³**T** could identify and avoid carbon credits double-counting

maintain the quality of reforestation or conservation projects carried by companies, airlines, fuel producers, etc.





LinkedIn: https://www.linkedin.com/in/drksankaran/

TEDx talk: https://www.youtube.com/watch?v=oerPAgq0P_4

Good News from Finland: <u>https://www.goodnewsfinland.com/feature/vaasa-energy-capital-nordics/</u>

When organisations, cities, and countries progress? https://ilkkapohjalainen.fi/mielipide/kolumnit/kolumni-when-organisations-cities-and-countriesprogress-1.2603256

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