How to learn what Smart Contracts are?

Jeroen Perquin

21 September 2021

DDSZ Kick off

Dit project is mede mogelijk gemaakt door een bijdrage uit het Europees Fonds voor Regionale Ontwikkeling in het kader van OP-Zuid

BLOCKCHAIN IS A YOUNG
POWERFUL TECHNOLOGY
FULL OF POTENTIAL

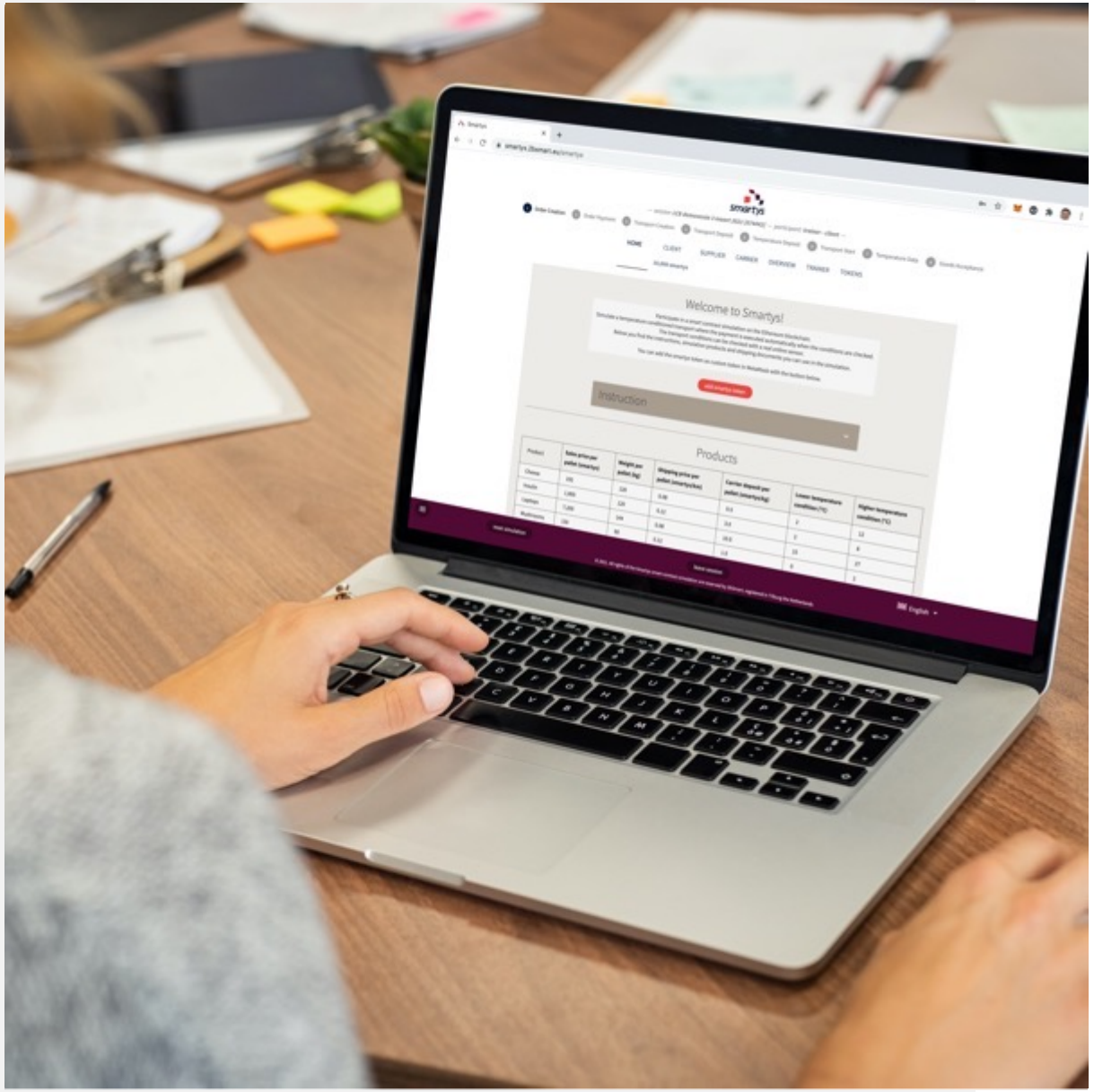
WHY HAS IT NOT REACHED
ITS FULL POTENTIAL YET?

31%
LACK IN-HOUSE CAPABILITIES (SKILLS AND UNDERSTANDING)

Source: Deloitte's 2020 GlobalBlockchain Survey

HOW TO LEARN ABOUT
SMART CONTRACTS
IN A SAFE ENVIRONMENT?

INTERACTIVE SIMULATION IS THE ANSWER



What is Smartys?

Blockchain & IOT simulation platform

Smart contract use case in logistics

Workshop for students and business

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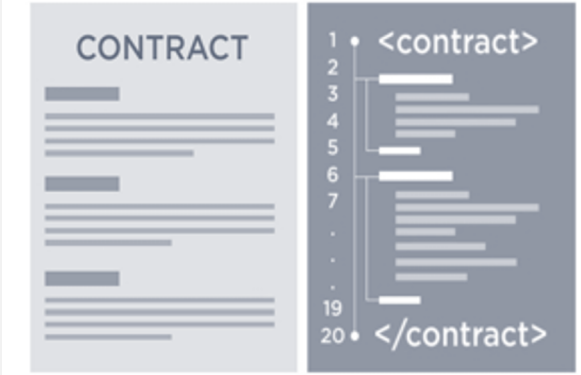
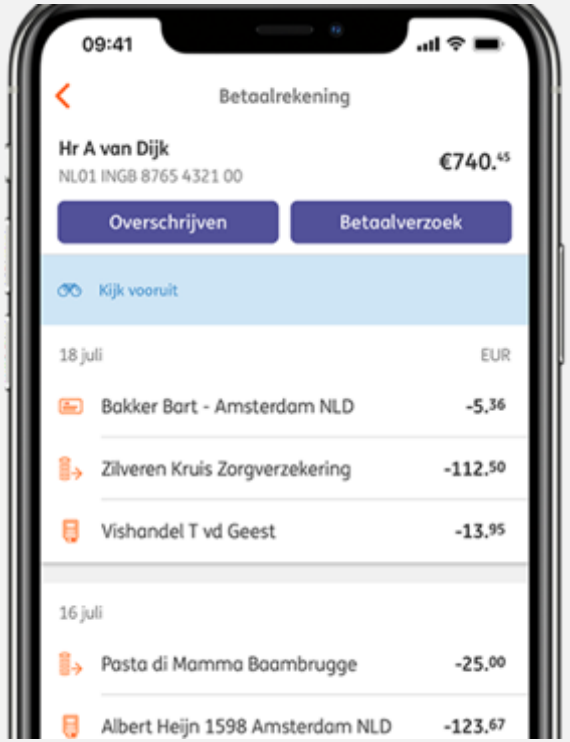
Smart contract

”A smart contract is a programmed contract with agreements recorded in computer code on the blockchain.”



Smart contract

Smart contracts allow multiple conditions to a value transfer



Temperature

Time

Receipt

Any sensor data

Smart contract cannot be changed and will always be executed once conditions are met!

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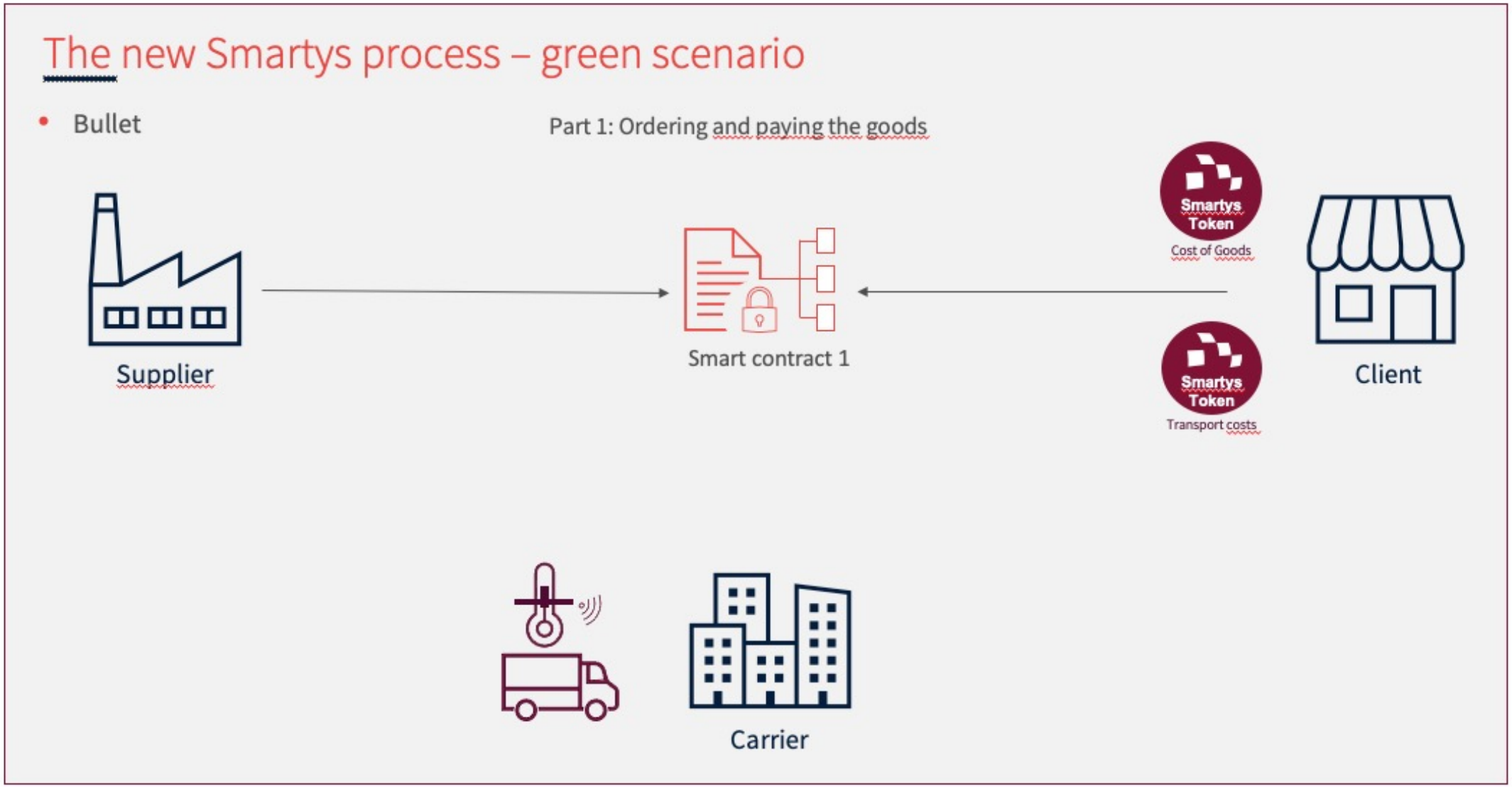
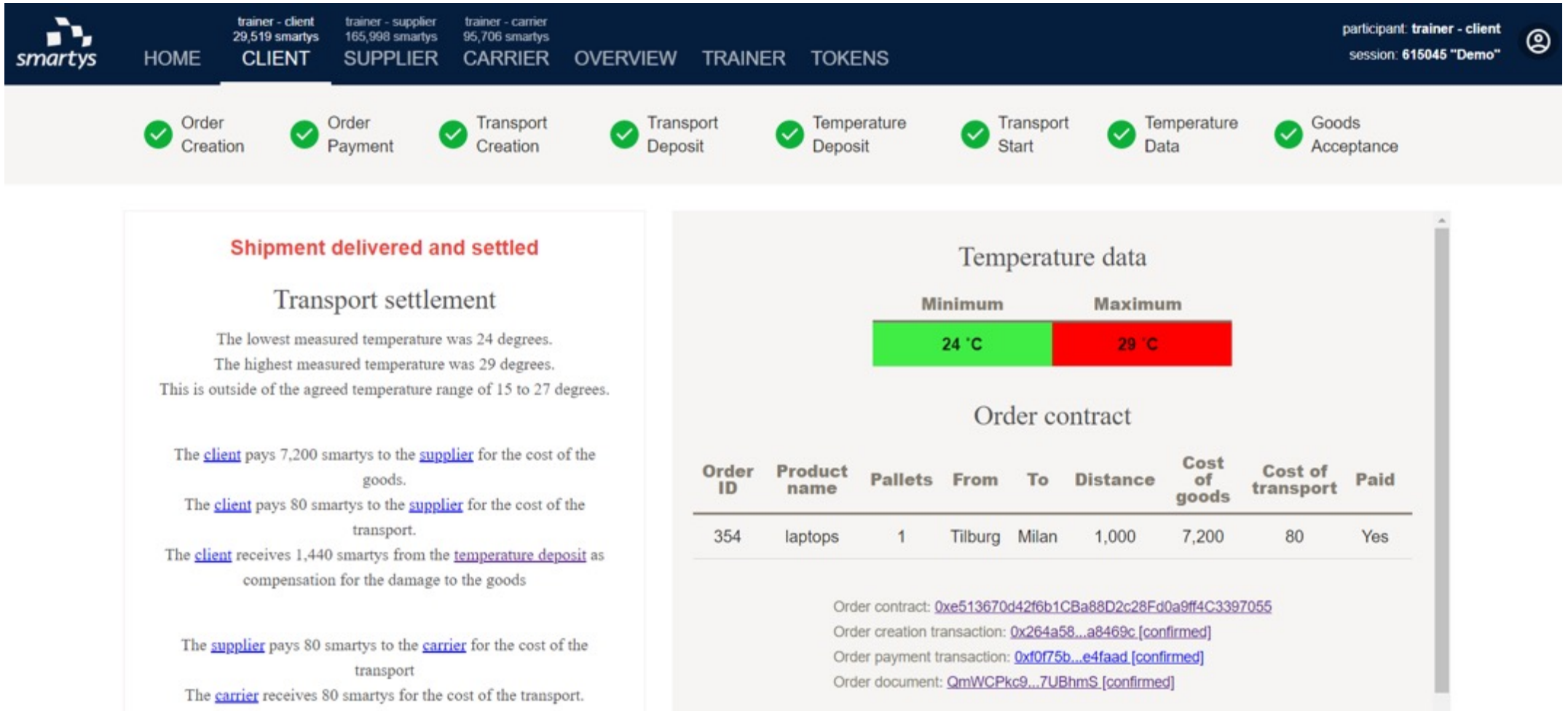
The Smartys Use case in logistics : Conditioned Transport -> reduce admin waste!



Smartys – create and execute smart contracts transactions in a role play



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Smartys Simulation modules

Temperature conditioned transport

Smart contracts

Tokens (ERC777)

Data storage on IPFS

Integration with IoT sensors

Time conditioned transport

Smart contracts

Tokens (ERC777)

Data storage on IPFS

Non-Fungible Tokens

Smart contracts

Tokens (ERC721)

Market place for trading tokens

Delivered to students and business in workshops of 2-3 hours, or 2 sessions of 1.5 hours

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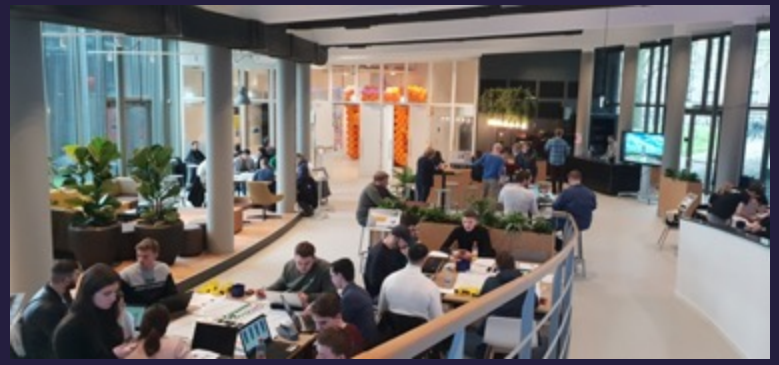
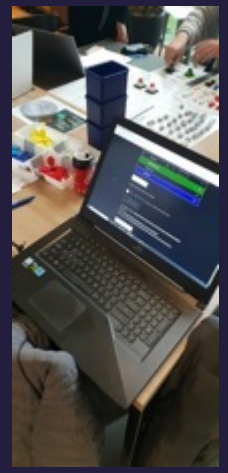
Smartys at Breda University - March 8, 2020 – Also online training done





Clients and Partners

HAN_UNIVERSITY OF APPLIED SCIENCES

inholland hogeschool

weconomics

DWA

DE HAAGSE HOGESCHOOL

Hogeschool van Amsterdam
Amsterdam University of Applied Sciences

BRAINBLOC

Sound

Breda University OF APPLIED SCIENCES

European Leadership University

LCB

modum

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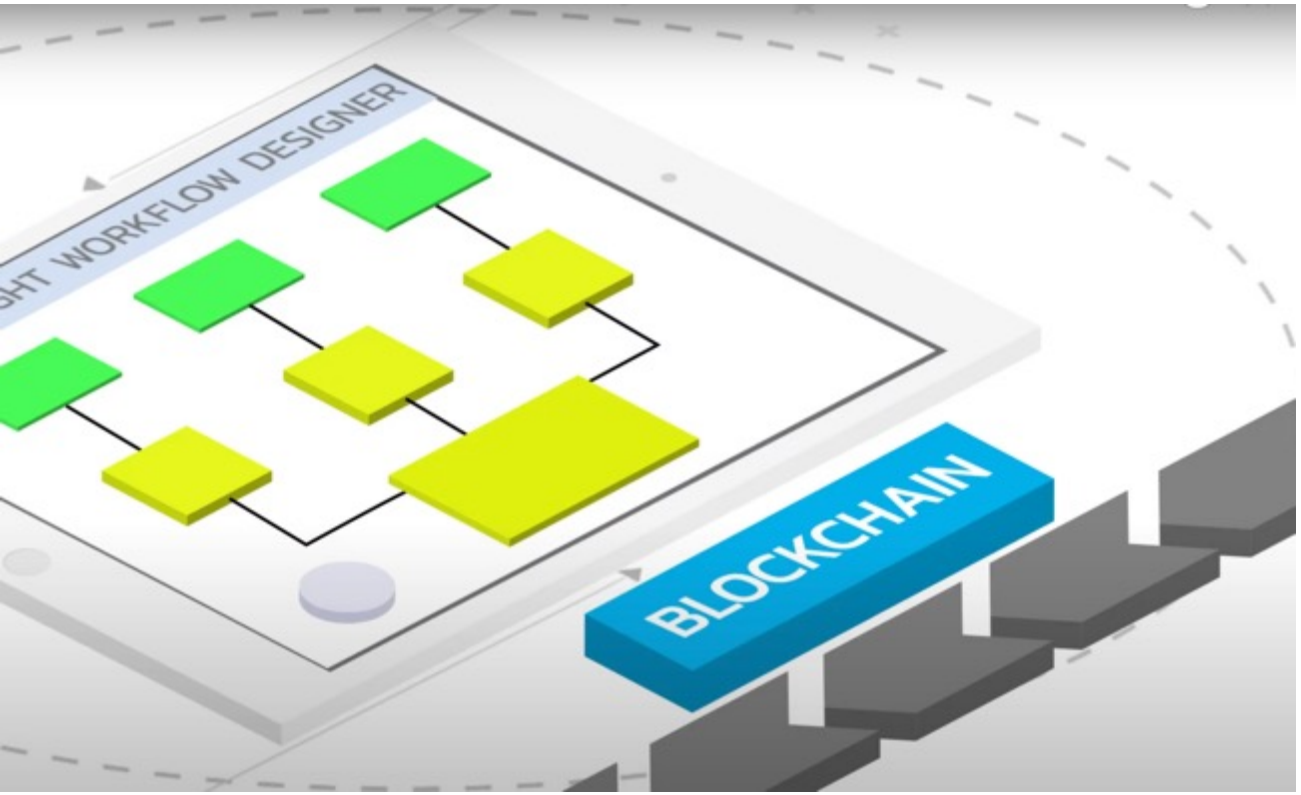
DDSZ project : Rapid Prototyping



- Prototyping (IT) is difficult for many

- Rapid prototyping platform for non-IT students

- Dynamic modelling of smart contract

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The Smartys Team

Robert Rongen

Founder, CTO

Jeroen Perquin

Founder, CFO

Christiaan Verhoef

Trainer

Harrie Goutier

Trainer

Marc Buma

Blockchain Developer

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Thank you

Feel free to contact

www.2bsmart.eu

linkedin.com/company/2b-smart

+31 646881049

jeroen@smartys.eu