

## BLOCKCHAIN

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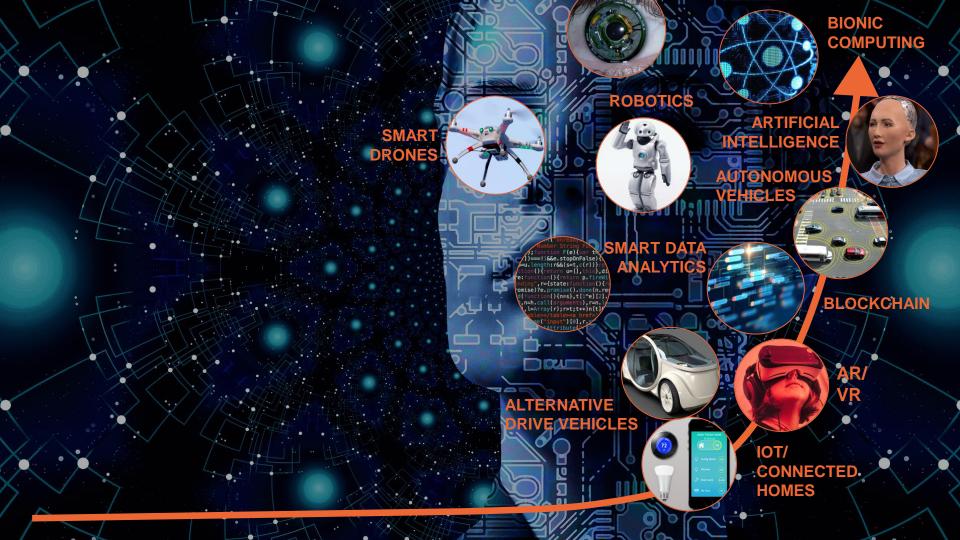
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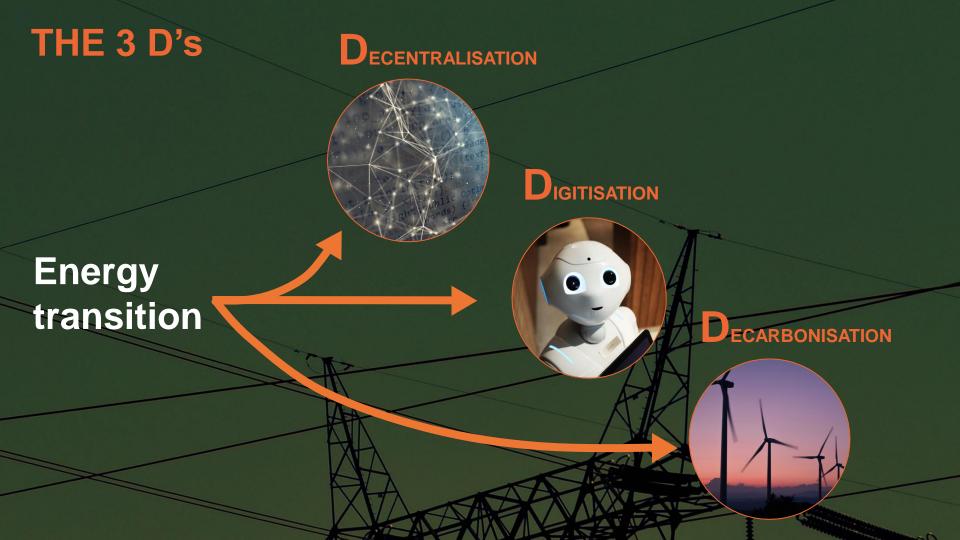
GAME CHANGER FOR ENERGY UTILITIES
PETER GÖNITZER, GENERAL MANAGER WIEN ENERGIE













Will energy utilities transform into tech companies?











3 NEW METHODS







# We embrace innovation

PROGRAMME BOT TINA

URBAN PIONEERS
CO-CREATION
COMMUNITY

E-MOBILITY PROGRAMME

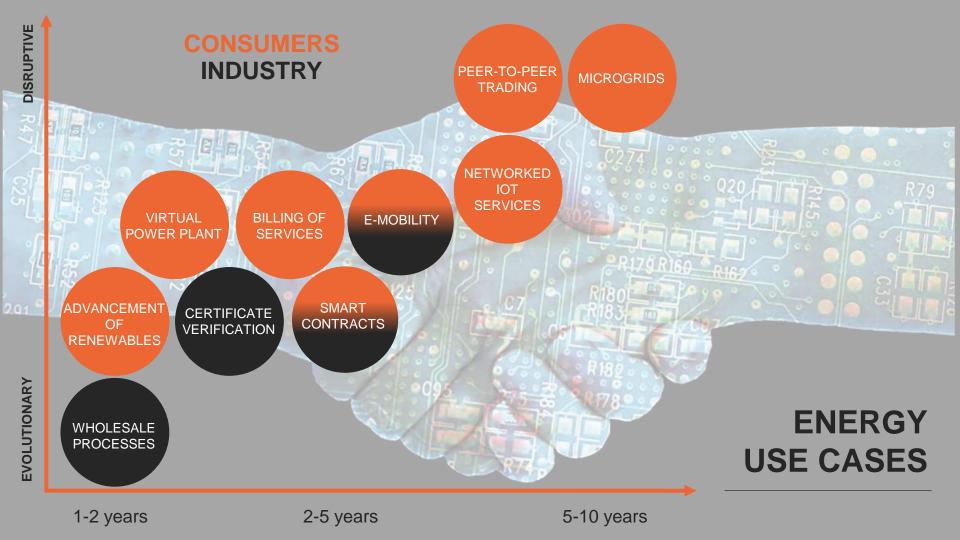


IOT/SMART HOME HAUSMASTER



"Its best applications are yet to come"

Alex Tapscott on Twitter





PILOT PROJECT #1
BLOCKCHAIN & GAS TRADES

PILOT PROJECT #2
ENERCHAIN

PILOT PROJECT #3
BC & PV IN APARTMENT BUILDINGS

gen wir zwei Million Menschen und 230,000 Menschen und Gewerbe- und Industrieanlagen mit Strom, Erdgas und Fernwärme in und um Wien.

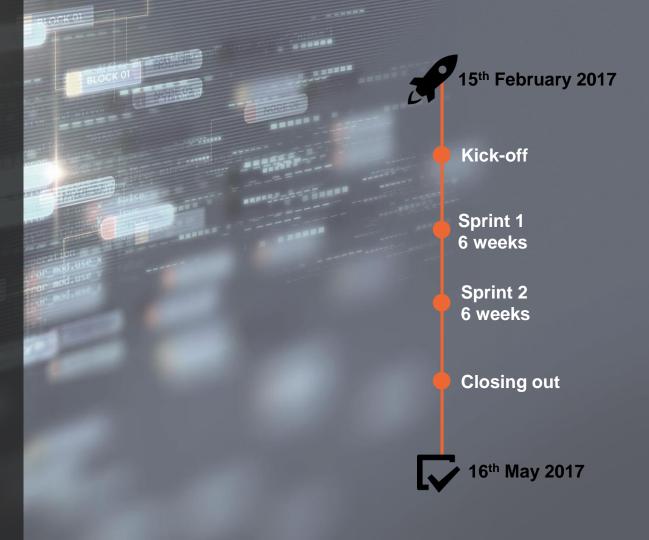


#### **WHAT'S IT ABOUT?**

- BLOCKCHAIN-BASED DEAL MATCHING FOR GAS TRADES
- BTL'S INTERBIT PLATFORM

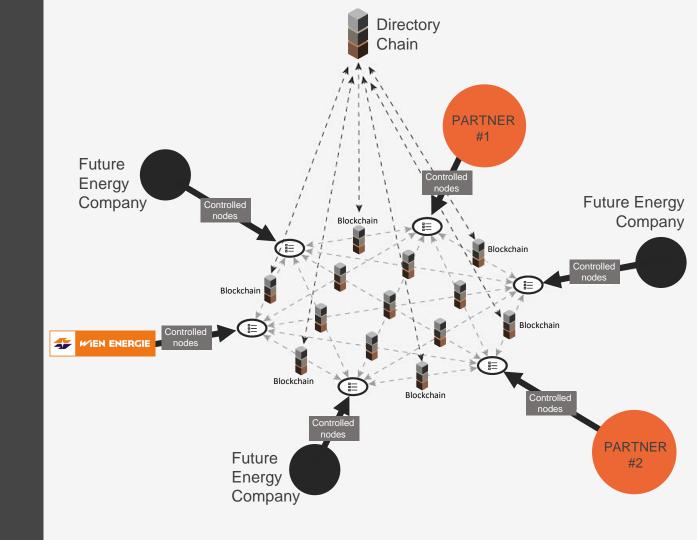
#### **OBJECTIVES**

- ASSESS THE POTENTIAL
- PROVE SCALABILITY
- BUILD INTERNAL KNOW-HOW



### PROOF OF CONCEPT

- 1,000 TRANSACTIONS/ SEC/CHAIN
- SCALABILITY OF 100,000 TRANSACTIONS WITHIN THE NETWORK
- PRIVACY SECURED
- MINIMAL DEVELOPMENT EFFORT



#### MEDIA BUZZ

 GREAT MEDIA RESPONSE



#### wallstreet:online

#### BTL Group to Commence Interbit Blockchain Pilot With Wien Energie and Other Major Global Energy Companies

futurezone Netzpolitik B2B Produkte Digital Life Science Meinung Games Apps Start-ups Community





Blockchain builder BTL Group is listed on the Toronto Stock Exchange Venture (Mark Blinch/Reuters)



VANCOUVER, BRITISH COLUMBIA—(Marketwired - Feb. 14, 2017) - BTL GROUP LTD. (TSX VENTURE:BTL) ("BTL") is pleased to announce that it is working with a group of leading energy companies, including Wien Energie GmbH, Austria's largest regional energy company, on a blockchain pilot using BTL's Interbit platform. As with previous projects that BTL has successfully completed in this space, the goal is to demonstrate how BTL's technology can significantly drive down costs associated with energy trading. This revenue generating pilot will run alongside the other work BTL is continuing to undertake in the energy and finance industries.



#### **WHAT'S IT ABOUT?**

- PARTICIPATION IN THE 'ENERCHAIN' P2P TRADING PROJECT
- P2P TRADING VIA BLOCKCHAIN
- TRADING PLATFORM FOR ELECTRICITY/GAS
- 40 EUROPEAN ENERGY TRADING COMPANIES
- JUNE 2017 Q1 2018 (FIRST TRADES: SEPT 2017)

#### **BENEFITS**

- INTENSIVE COMMERCIAL ANALYSIS OF BLOCKCHAIN
   & KNOW-HOW BUILDING
- IDENTIFICATION OF MAJOR ISSUES
- CO-OPERATION WITH IMPORTANT TRADING PARTNERS
- NO LICENCING FEES





## BLOCKCHAIN & PV

#### **PILOT PROJECT #3**

BLOCKCHAIN INFRASTRUCTURE - PHOTOVOLTAICS IN APARTMENT BUILDINGS

CO-OPERATION WITH RIDDLE&CODE

#### **WHAT'S IT ABOUT?**

- BLOCKCHAIN INFRASTRUCTURE FOR A CITY DEVELOPMENT AREA
- 'URBAN PIONEERS COMMUNITY' INNOVATION PROJECT, 'VIERTEL ZWEI', VIENNA
- TESTING OF NEW ELECTRICITY TARIFF MODELS
- DEVELOPMENT OF NEW BUSINESS MODELS FOR THE ENERGY SECTOR



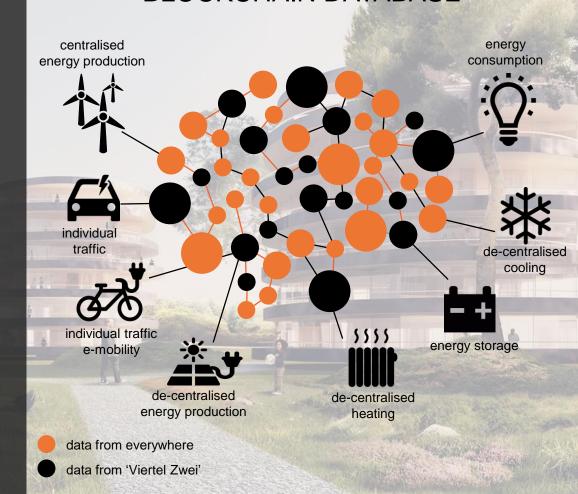
#### **OBJECTIVES**

- SET UP BLOCKCHAIN
- INTEGRATION WITH FILING SYSTEM
- DEVELOPMENT API
- ADAPTATION OF DATA STRUCTURES
- SMART ENERGY CONTRACTS
- HARDWARE POC FOR STORAGE/ CHARGING STATIONS
- BILLING SYSTEM

### WHY BLOCKCHAIN DATABASE?

- SPEEDS
- TRANSACTION COSTS
- ASSETS

#### **BLOCKCHAIN DATABASE**



### Benefits outweigh the risks







#### **NEXT STEPS**

#1

IMPLEMENT PROTOTYPES TOGETHER WITH OUR PARTNERS

#2

START OWN DEVELOPMENTS AND BUILD UP KNOW-HOW

#3

DEVELOP AND IMPLEMENT COMPLETELY NEW BUSINESS MODELS



