

# LEKA<sup>1</sup>TECH



**ELECTRIC BREAKER  
HAMMER  
- A GAME CHANGER**



## AWARDED NEW FUNDING — EIC ACCELERATOR & EIT RAWMATERIALS

### European Innovation Council Accelerator

Successful companies | Cut-off 6 October



### LEKATECH awarded EIC Accelerator Grant & Equity components

- Grant part 1,66M€
- Equity part 4,7M€

### LEKATECH led consortium was awarded 24.9.2021 funding

- Project size 2,45M€
- Lekatech is the sole commercializing party

## TREND — CONSTRUCTION AND MINING EQUIPMENT GOES ELECTRIC

**Normet making history by doing underground explosives charging on batteries**  
WED, JUN 12, 2019 12:34 CET

**VOLVO CE UNVEILS 100% ELECTRIC COMPACT EXCAVATOR PROTOTYPE**  
By Press Information | 14/10/2017

**JCB's first electric excavator**  
By Thomas Allen | 27 March 2018

**Mecalac to Offer 100% Electric Excavator for Urban Work Sites**  
The electric version of the 12MTX compact excavator fits with the company's drive toward more compact, high-performance and environmentally friendly building sites  
Mecalac - MAY 18, 2018

**KOBELCO'S HIGHLY ANTICIPATED HYBRID ARRIVES IN EUROPE**  
12 June 2017

**Komatsu Introduces New HB3650LC-3 Hybrid Excavator at ConExpo**  
Posted by Michael Roth | Mar 18, 2017

**Wacker Neuson Electrifying Internat**  
April 17, 2018

**Normalized hydraulics for micro excavators**  
KORANE — LEAVE A COMMENT

**THIS MASSIVE ALL-ELECTRIC EXCAVATOR HAS A 3.4 TON BATTERY PACK**

**Electrification of construction machinery could cut energy use by 71% – major demonstration project launched**

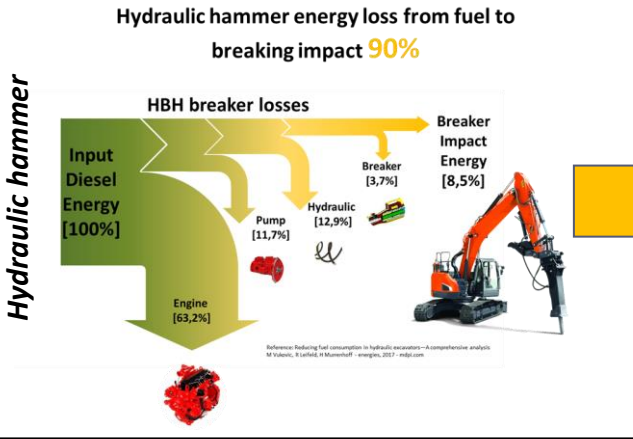
**Construction Equipment in a Quarry**

**Electrified Construction Equipment Gaining Momentum**  
More manufacturers are developing electric powered construction equipment to meet increasing emissions regulations and provide efficiency improvements.  
January 27, 2020 | By Sara Jensen

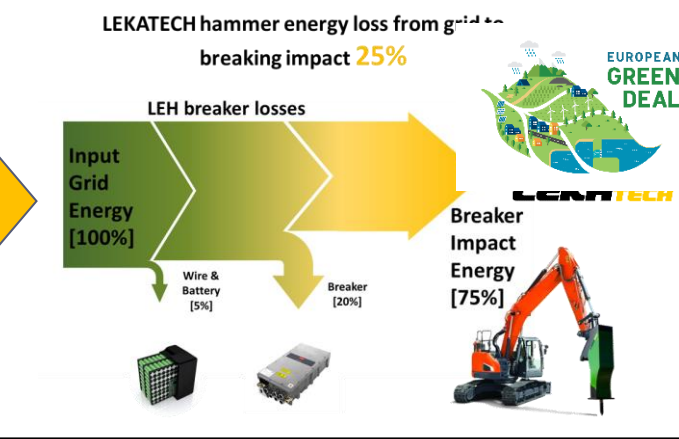


## PROBLEM & SOLUTION - 4 FUNDAMENTAL PROBLEMS OF HYDRAULIC HAMMER

### 1. Waste of energy and CO2



### Savings, Sustainability



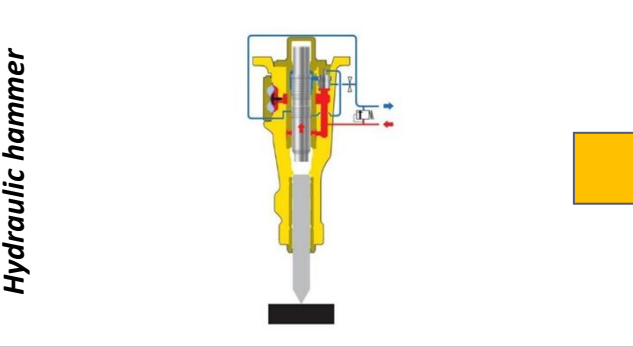
### 2. Lack of adjustability



### Digital = High performance



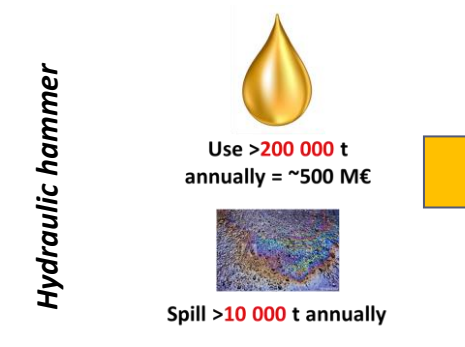
### 3. Self destructive work cycle



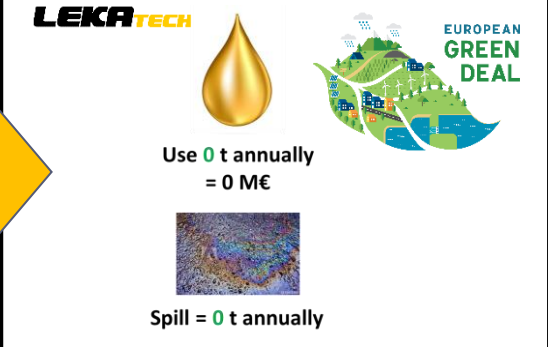
### Gentle work cycle = Savings



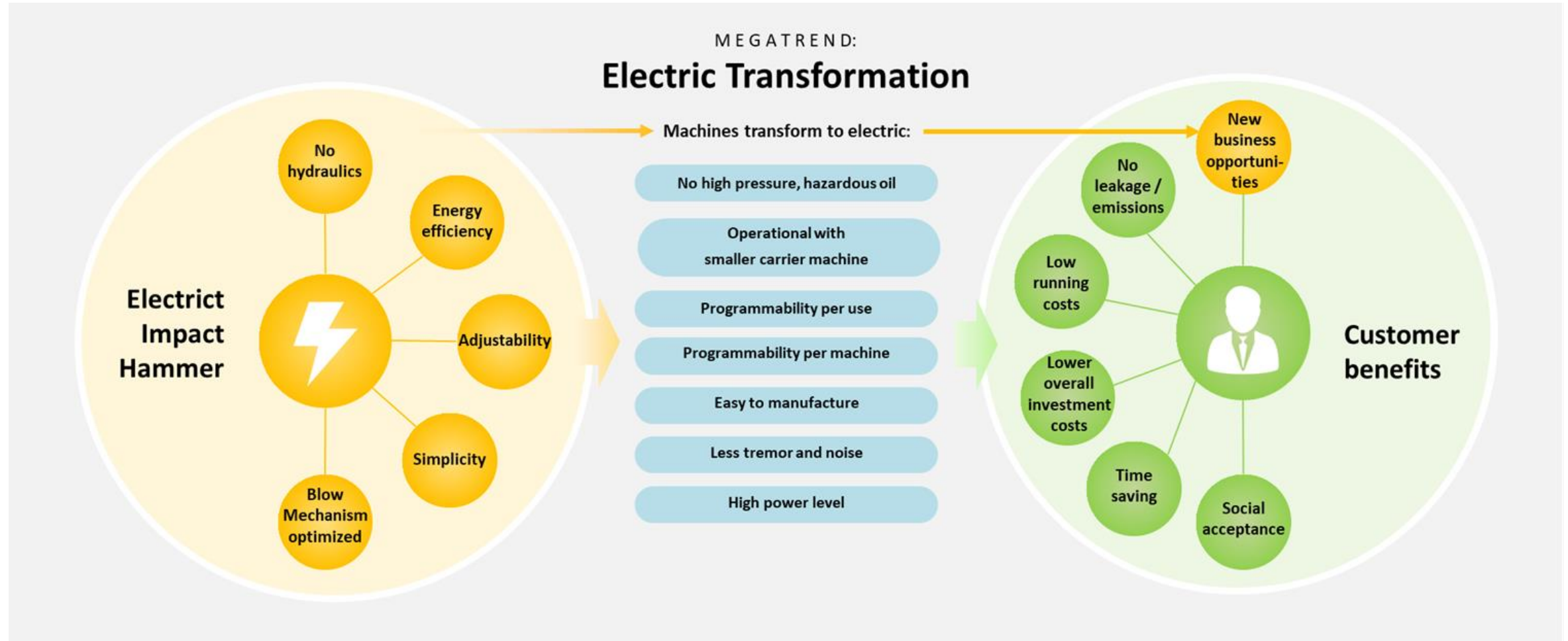
### 4. Waste of oil



### Savings, Sustainability



## ROLE IN VALUE CHAIN — CATALYST FOR ELECTRIC TRANSFORMATION



## VALUE PROPOSITION – PERFORMANCE, ENVIRONMENT, DIGITALISATION



### Increased performance

>50% LESS total cost  
>30% MORE capacity

### Environmental effects

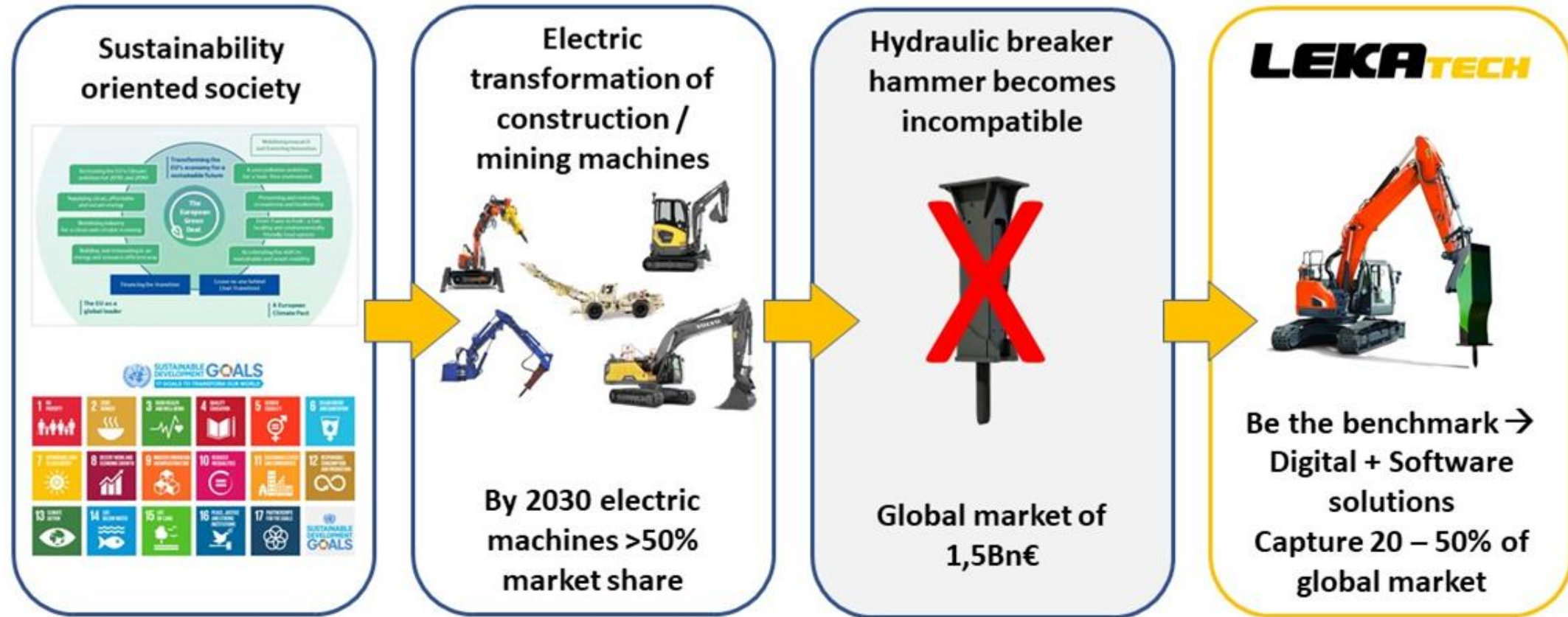
60% LESS energy used globally (~2xFinnish windpower output)  
100% LESS CO2-emissions globally (~½ Sweden CO2)

### Integration to digital society

Programmable precision  
Data&Software based business

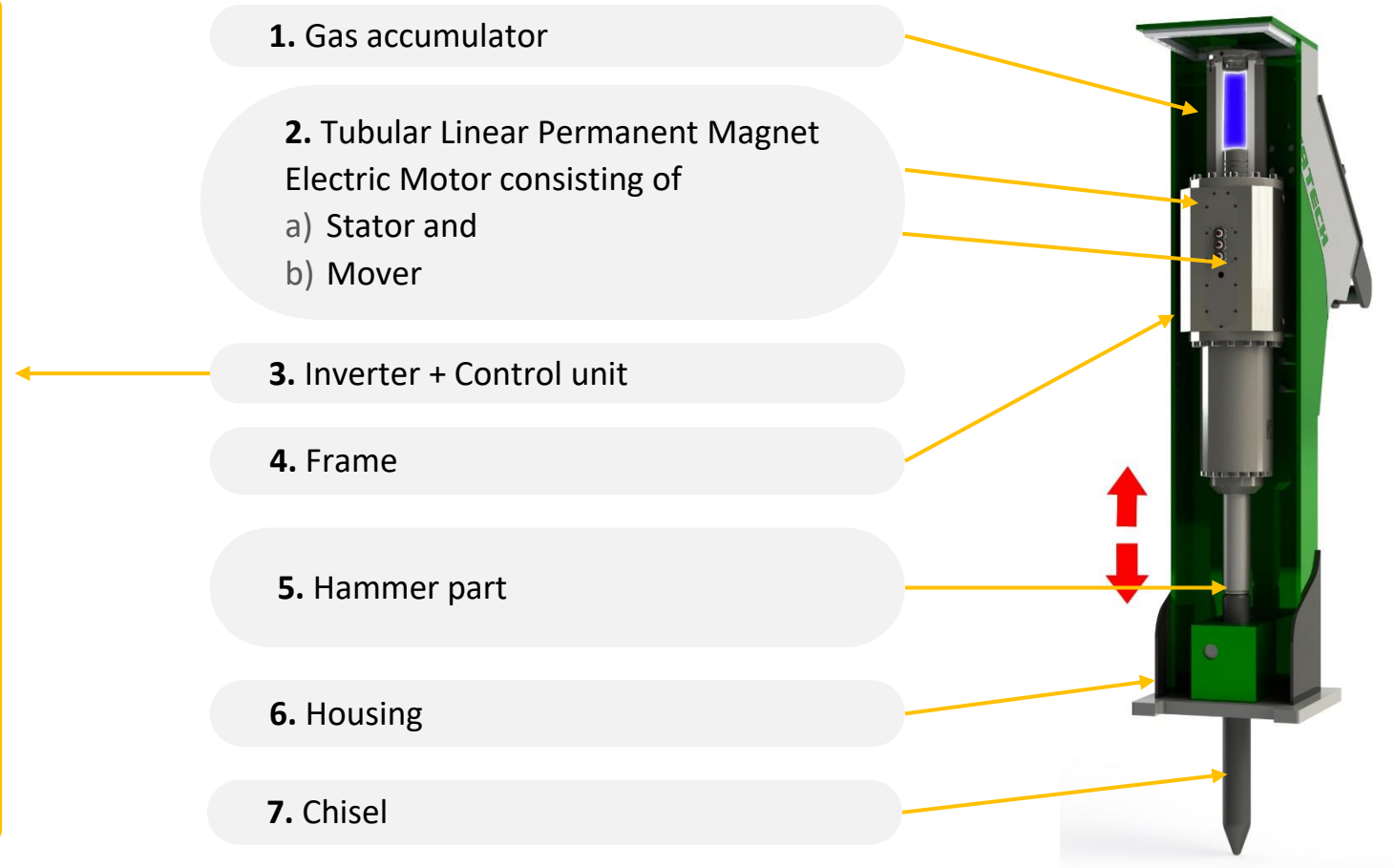


## MARKET OPPORTUNITY – REPLACEMENT OF HYDRAULIC HAMMER



Examples: Norway - [https://www.c40knowledgehub.org/s/article/Oslo-Climate-and-Energy-Strategy?language=en\\_US](https://www.c40knowledgehub.org/s/article/Oslo-Climate-and-Energy-Strategy?language=en_US)  
Finland - <https://situmus2050.fi/paastotontyomaa#/>

## PRODUCT - SIMPLE MODULAR STRUCTURE






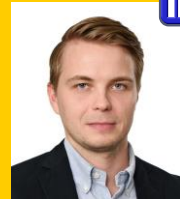
## TEAM – BALANCED CORE, OUTSOURCED EXPERTISE, RECRUITMENT PLAN




**TUOMO PELTOLA**, founder  
Chairman of the board  
Long time entrepreneur,  
The inventor




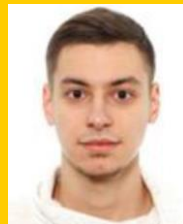
 **ANTTI ANTTILA**, founder  
CEO  
M.Sc. Engineering  
20 yrs business  
development



 **JYRI PELTOLA**, founder  
Product development  
M.Sc. Engineering  
Construction machine  
entrepreneur



 **SEPPO JURVANEN**, Senior  
engineering director  
M.Sc. Engineering



**IURII DEMIDOV**  
Control support  
M.Sc. Engineering




**JUHO UKKOLA**  
Approvals / Process /  
Engineering  
Thesis worker




 **ROB MOONEN**  
Director EU projects  
& Business  
Development  
MBA



 **TIMO MAYER**, employee  
Project engineer  
M.Sc. Engineering




 **JUHA PYRHÖNEN**, partner  
Senior advisor  
Recognized professor of  
electric machines at LUT



 **ANTTI SEKKI**, founder  
Member of board  
PhD. Engineering  
Business consultant &  
Entrepreneur

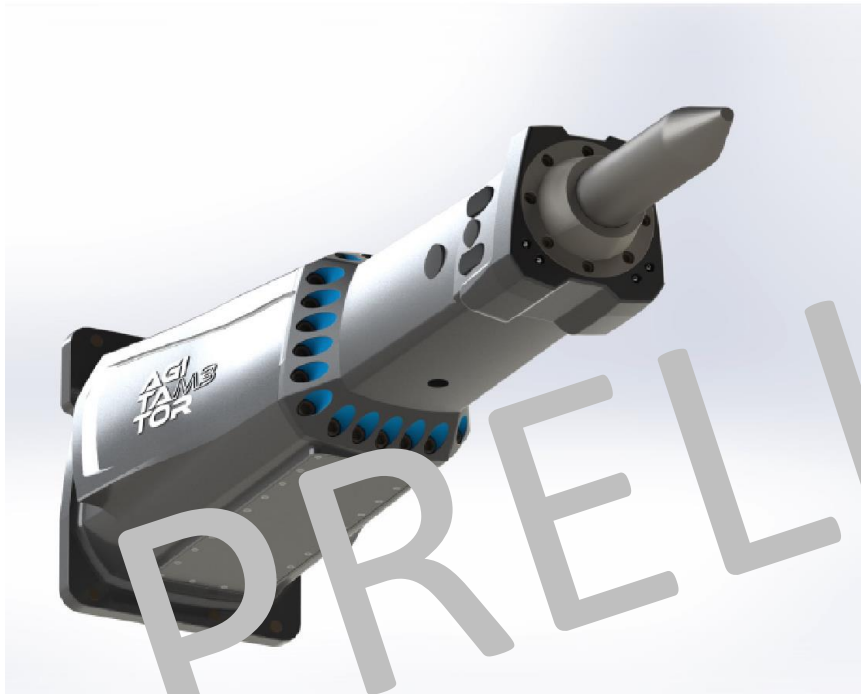


 **JORMA AUTIO**, Senior advisor,  
Rock mechanics  
Licenciate materials  
engineering. Head of Nuclear  
waste management services

**10 further persons according to  
recruitment plan until 2023**

- **2 x Business development**
- **2 x Customer support**
- **5 x Technical**
- **1 x Master's thesis**

COMMERCIAL DESIGN – **VISUAL APPEARANCE**



PRELIMINARY



## LOCATION – EXISTING FACILITIES

We have appropriate premises in Kausala, Finland



Fully dedicated to the needs of Lekatech Oy

## CONCLUSION



**We bring hammering  
to digital era!**

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