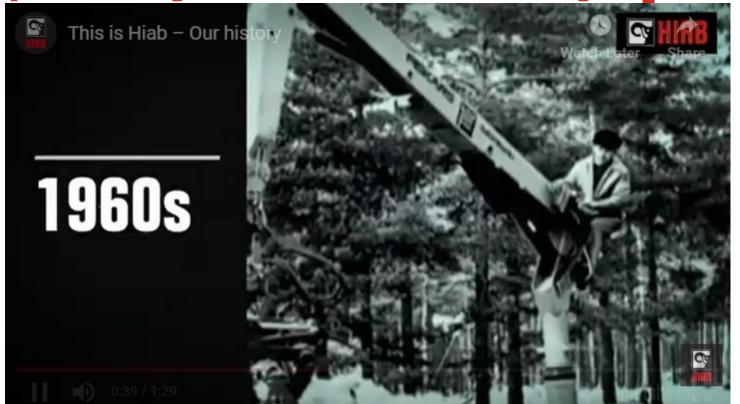




WE ARE HIAB https://www.youtube.com/watch?v=FIZRydm_cS8&t=31s





LOCATED NEAR OUR CUSTOMERS







SUSTAINABILITY IS GOOD BUSINESS

Profitable growth through sustainability

SOLUTIONS AND ACTIONS THAT DRIVE A CIRCULAR, 1.5° C WORLD

HUMAN RIGHTS
HEALTH & SAFETY
DIVERSITY, EQUITY &
INCLUSION



SUSTAINABLE FINANCE RESPONSIBLE SOURCING & SALES

ISTAINARI F • RIISINESS • FRAMEWORK

RESEARCH TOPICS



EYE

Sensors

Radars

Ultrasonic

UWB

Cameras

GPS/GNSS



HEART

Energy efficiency

Advanced Hydraulic

Electric Actuators

Electrification

Systems layout



BRAIN

Electronics

Motion control

Energy efficiency

Advanced Control

Image recognition



RESEARCH TOPICS / < PRODUCT DEVELOPMENT





https://www.youtube.com/watch?v=gYz84LLsNrM&t=44s

- Revolutionizing Forestry Crane
 Operation
- VR Headset with User Interface
- Accurate & Efficient Log Handling
- Enhanced Productivity and Safety







RESEARCH TOPICS





HIVIsion - Remote

- Remote operation for forestry cranes
- HiVision over 4G/5G
- Safety
- Part of autonomous roadmap

https://www.svt.se/nyheter/lokalt/vaster norrland/norrlands-forsta-5g-nat-invigt







RESEARCH TO CS







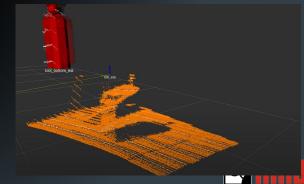
UNICORN

https://research.chalmers.se/en/project/7879

- Revolutionizing Waste Collection
- Autonomous Crane System with Camera & LiDAR
- Accurate & Efficient Bin Handling
- Enhanced Productivity, Safety, and Client Satisfaction









PROOF OF CONCEPT / PRODUCT DEVELOPMENT



Hookiifts

https://www.youtube.com/watch?v=S5-AwDB4JcQ&t=12s

- Revolutionizing user assistance
- Camera & LiDAR object identification, path generation
- Accurate & Efficient Container handling
- Enhanced Productivity, Safety, and Client Satisfaction



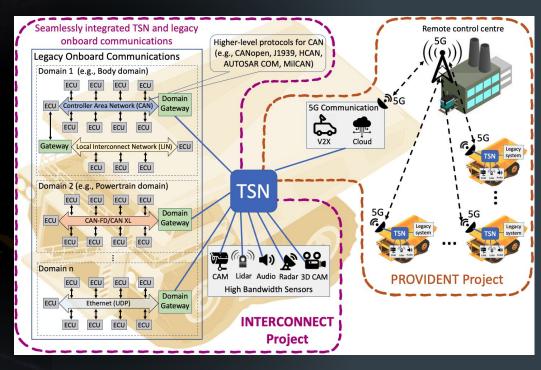


RESEARCH TOPICSMälardalens University





- Remote operation
- Remote diagnostics/simulation
- 5G / TSN
- Enhanced Productivity, Safety, and Client Satisfaction







RESEARCH TOPICS









https://www.more-itn.eu/

- Overcoming Crane Control Challenges
- Machine Learning for Adaptability & Flexibility
- Optimized & Autonomous Operation
- Unlocking Future Potential & Competitive Advantage







