

Challenge

HOW TO MOVE THE FUTURE – Moving Loads in an all-electric world

Electrically driven trucks are the future for inner-city transport. Current traditional hydraulic strategies for actuating cranes bring inherent inefficiencies and losses draining the energy supply of the truck without doing actual work.

We need to find new ways that don't use hydraulics or use hydraulic power highly efficiently for moving loads and actuating load bearing arms/systems.

Industry Partner

PALFINGER is a leading international manufacturer of innovative lifting solutions for use on commercial vehicles, ships and stationary equipment.

**Mission**

- FIND ways to move a crane using technologies other than currently used traditional hydraulics
- BRAINSTORM new ways to move loads with similar or better performance (weight/outreach) than current cranes
- PITCH concepts against each other, and select the best candidate
- DEVELOP a prototype
- PRESENT your findings