

# IT-4464 Bidders' Conference Consolidation Program

19<sup>th</sup>-20<sup>th</sup> February 2019



# Handling Engineering Group (EN-HE)

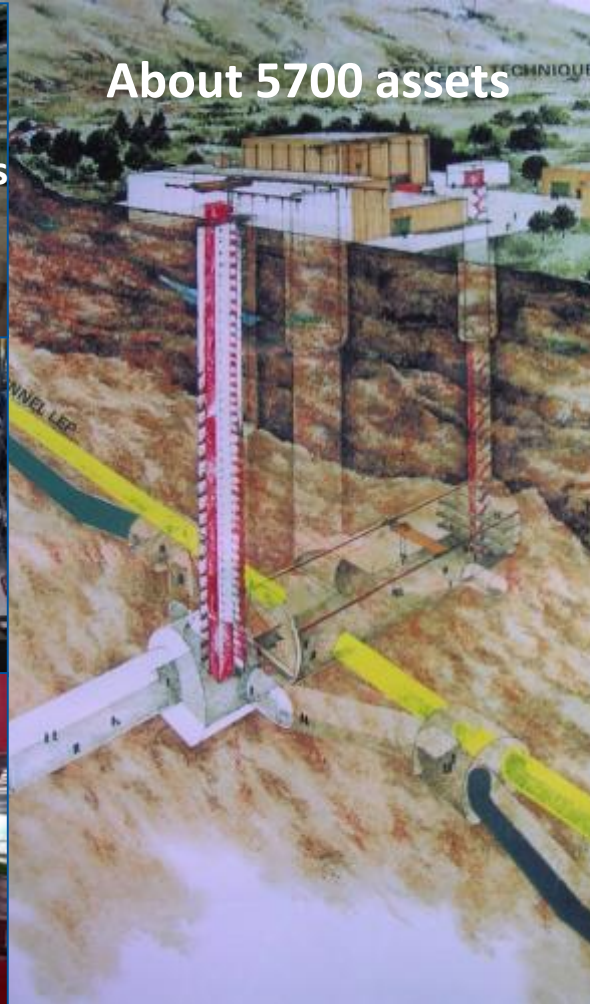
The mandate : provide **transport and handling services** for the technical infrastructure of CERN, accelerators and experiments. This includes the design, the tendering & procurement, the installation, the commissioning, the operation, the maintenance and decommissioning of **standard industrial and custom built transport and handling equipment.**



Group Leader  
Ingo Rühl



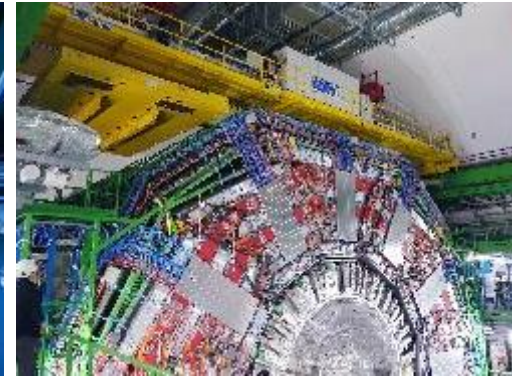
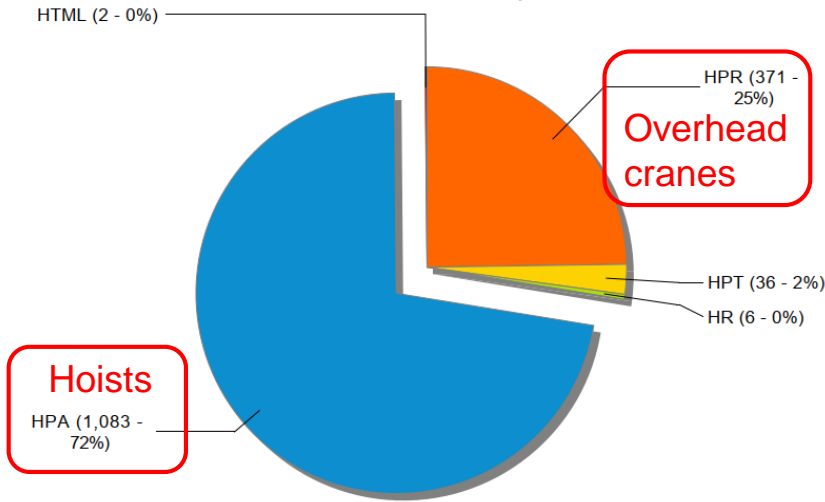
# EN-HE Transport and Handling Equipment



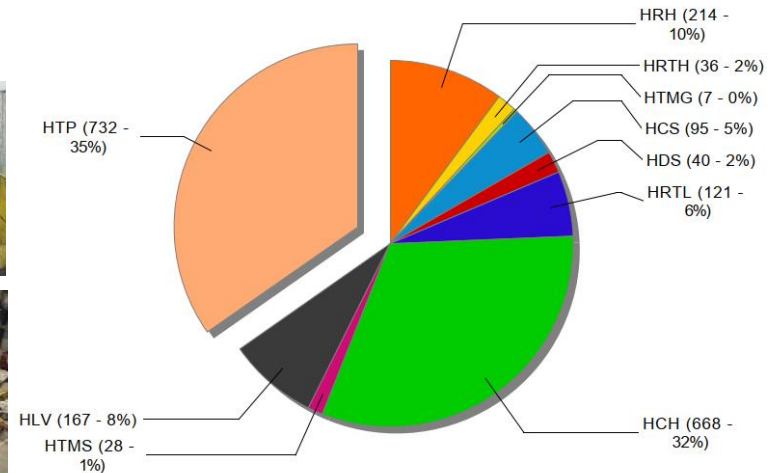


# Distribution of CERN Hoisting Equipment

HM31 equipment family: ~1.500 assets



HM32 equipment family  
~2.100 assets



# CERN's crane consolidation program

- EN-HE group established in 2009 a consolidation program with the aim of renovating the park of overhead cranes.
- The main reasons justifying the consolidation program are the following:
  - ✓ Poor reliability or high maintenance costs;
  - ✓ Absence of safety equipment;
  - ✓ Maintenance accesses not compliant with the actual standards;
  - ✓ Presence of asbestos;

# CERN's crane consolidation program

- Additional reasons for the crane consolidation program are;
  - ✓ Unavailability of spare parts;
  - ✓ Obsolescence of electrical components;
  - ✓ Adaptation of the crane operation characteristics to the new user's needs;
  - ✓ Increase of the criticality of the equipment for the activity of the organisation;

# CERN's crane consolidation program

- Recurrent program
- About 80 cranes replaced or revamped since 2009
- More than 100 cranes (capacity up to 10t) part of the program in the coming years
- Yearly program adapted to CERNs' physics strategy and highest priority activities

# CERN's crane consolidation program



*Electrical refurbishment of the three cranes  
above Booster accelerator*



# CERN's crane consolidation program



*Crane replacement in ISR tunnel*

# CERN's crane consolidation program



*Crane replacement in metrology room*