

# HYDROGEN PEROXIDE EXPLOSIVES

## Project leader

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## Partners

Boliden Minerals AB, Luleå University of Technology  
Organisation AB

## Project duration

01.03.2020 – 01.04.2021



# Goals of the project

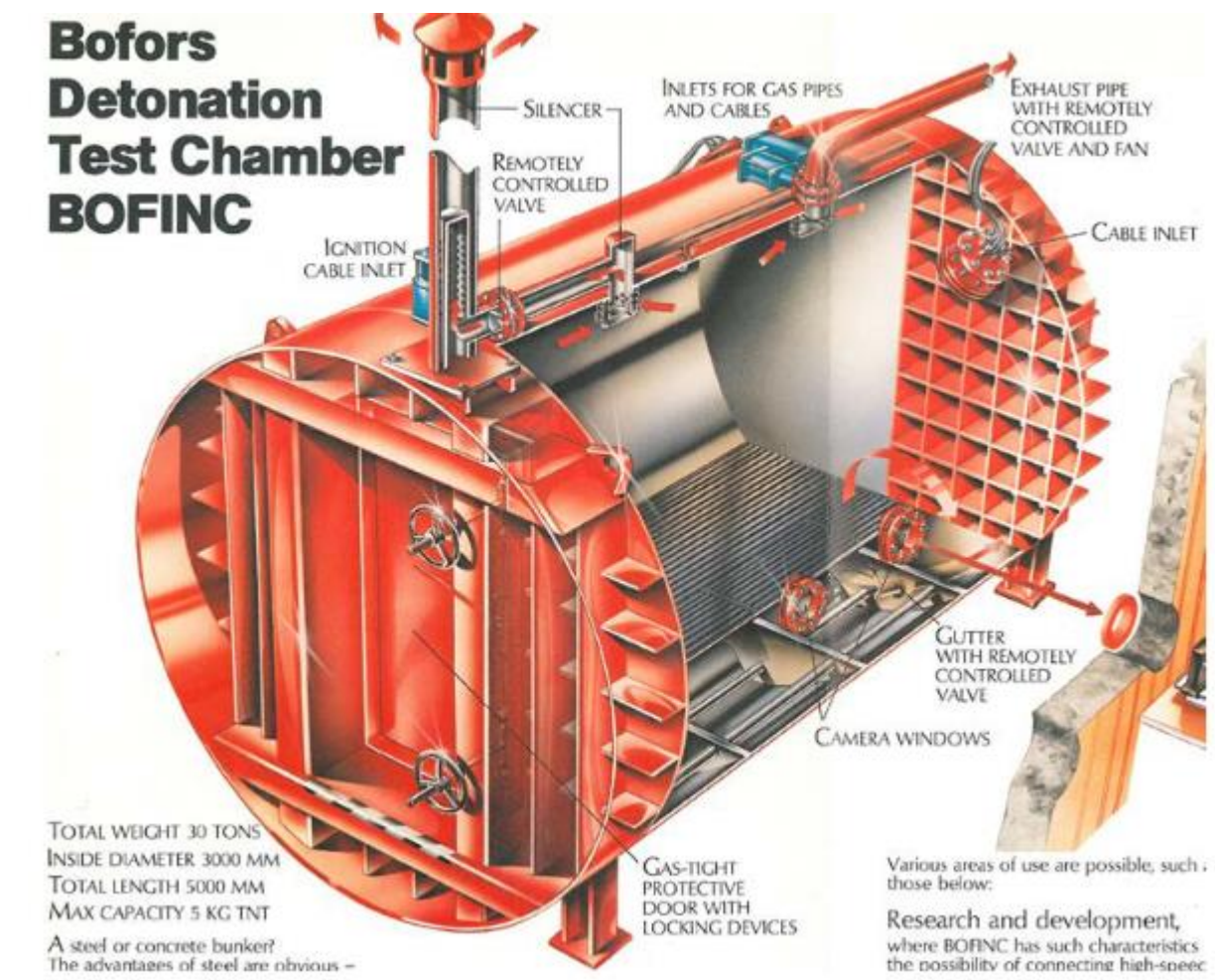
1. Develop a stable, cost competitive bulk explosives with a hydrogen peroxide based oxidiser suitable for use in an active production environment
2. This explosives must have safety characteristics on par or better than the status quo
3. This explosives must have performance characteristics on par or better than the status quo
4. Upon realising these main goals, we will have a significantly more environmentally friendly explosives for bulk consumption.



# Results so far

- Explosives permitting (MSB)
- Construction and import of the prototype Bulk Loading Unit (BLU)
- Significant procedural and risk assessment work
- Detonation testing
- Blast gas profile measurements (FOI)
- VOD testing
- First (of 5) site-based trials at Boliden's Kankberg Operation

To date, all KPI's have been achieved, including blast trials at Kankberg, we are essentially on track, apart from Corona related delays



# Upcoming activities and next step

- Calibration and testing of the BLU
- Mobile matrix factory construction and commissioning
- Remaining site-based trials (4 visits over 5 days each), scaling up the blast sizes over time
- Further product/explosives refinement and optimisation



# Mining innovation for a sustainable future