ELECTRIC SITE

- INNOVATION IN METHOD AND TECHNOLOGY



Niklas Nillroth, Volvo Construction Equipment



Volvo Group





SUSTAINABLE GEALS







































SUSTAINABLE GALS DEVELOPMENT GALS





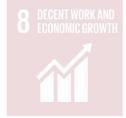


































What is Electric Site?

- **SKANSKA**
- A research demonstration and testing project which aims to:
 - use electricity instead of diesel to power construction equipment in a quarry
 - to electrify one of the transport stages in a quarry from excavation to primary crushing and transport to secondary crushing.
- *The* solution for the sustainable quarry and aggregate industry. Safe, productive, caring for the environment.
- Testing of the concept started a few weeks ago. 10 weeks testing planned.











Which are the main targets?

- Prove the potential of reducing CO₂ emissions by up to 95%
- Prove the potential of reducing total cost of operation by up to 25%





Traditional quarry operation – before change

- afternoon and morning shift

Feeding crusher

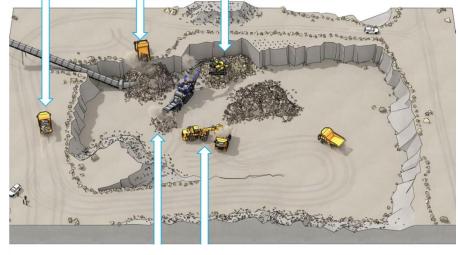
Stock piling (small)

Stock piling (large)

Transport C

Feeding 2nd crusher

Feeding crusher



Stock piling (small)

Truck loading



Electric Site machines & systems



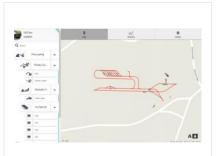
Wheel Loader LX01



HX02



Charging station



HX fleet control



Excavator EX01



Cable handling



Crusher



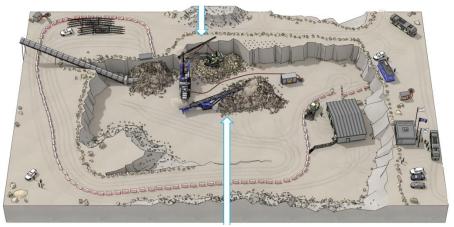
Conveyor belt



Electric site operation – currently tested

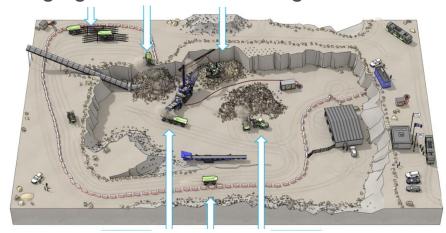
- afternoon and morning shift

Feeding crusher



Stock piling (large)

Feeding 2nd
Charging crusher Feeding crusher



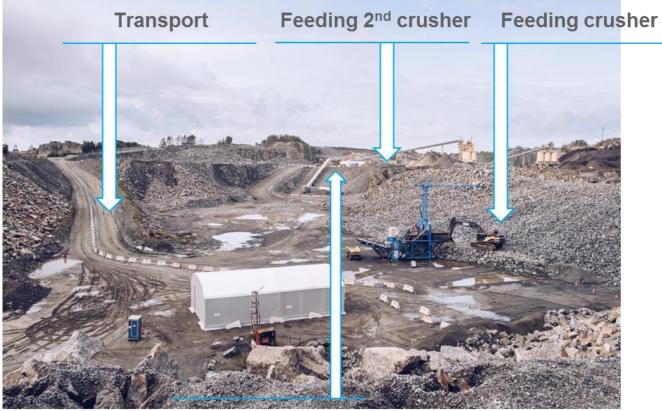
Direct loading Tran- Truck sport loading



Electric Site "In Real Life"







Charging







