Hans Lidén, President Atlas Copco GDE
Atlas Copco GDE develops, produces and markets quality products and services for exploration drilling and selected applications and markets within ground engineering.

**Application Areas**
- Find, identify and define natural resources
- Investigate rock and soil conditions
- Strengthen, seal and drain rock and soil
- Ground construction support systems
- Energy and waterwell drilling

**Exploration products**

**Ground engineering systems**
Ground Engineering
A general outlook for the future development

Urbanization is increasing, leading to expansion into unstable areas
Tunnels are done in poor ground conditions, which increases the need for forepoling

Fast growing development areas in great need for infrastructure
Need for new utility lines and underpasses increases the need of horizontal drilling

Environmental and safety concerns affect construction methods
Tunnels are used instead of road cuts, which increases demand for ground stabilization etc.

Decreased access to pure water, increased energy demand
Increased need for energy and water wells
Investigate rock and soil conditions

Strengthen, seal and drain rock and soil

Ground construction support systems

Energy and waterwell drilling

Gearing up – capacity increases

- Capacity increases in all production plants
  - New plant for Swellex rock reinforcement products
  - Expanded capacity for self drilling anchors
  - 40% increased capacity for overburden drilling systems
Gearing up – product development

- Large diameter piling systems

Poor ground requires more piling
New constructions require more and larger piling

- Roofex deep mine bolt –
also for construction in seismic areas

The House the Ruth built (and Atlas Copco rebuilt)

Customer: Yankee Stadium (Skanska)
Application: Foundation piling
Challenges: High reliability needed
Time constraints
Method: Micropiling
80 casings (324 mm)
45 m depth, incl 6 m rock
System used: Symmetrix

Increasing customer capacity

Customer: Häkkinen, Finland
Application: Foundation piling
Challenges: 400 tons of weight
Few µ settlements allowed
Method: 71 piles (711 mm) driven in granite bedrock
System used: Symmetrix
Time needed: 5 weeks
### Customer: Veidekke, Sweden

### Application: Tunneling

### Challenges:
- Sealing of tunnel with different rock conditions
- Tight schedule - efficiency
- Logistics

### Method: Mobile grouting production

### System used: Unigrout

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**We are committed to your superior productivity through interaction and innovation.**

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