Innovative in snowmaking and snow distribution
The beginning

• We started the snow development back in the early 90`s with North Star, USA using flake ice as snow subject.
• We took part in delivery to several outdoors facilities in Japan.
• Kotobiki Park was our first task with 200 tonn flake ice per day.
Entering the Vacuum Ice era.

• 2005/2006 we became the main snow partner with IDE Technologies, Israel.
• After the deployment of two large stationary machines in Switzerland and Austria, we worked hand-in-hand with IDE to develop this new market segment, making snow with vacuum technique
The IDE VIM-400 Vacuum system
Development of slurry ice machine systems for snow making

• We soon realized that an alternative system for the "bulky" and relatively complex machinery available was needed.

• In co-operation with ICE-GEN, Canada and SNOW-TEK, Finland, we took on the challenge of delivering 3 systems for the Sotsji Olympics.
With experience in snow crystal separation from water, we developed a vertical crystalizer tower enabling the ice crystals to multiply and to "dry" to snow.

We built three tank modules each to accommodate one ICE-GEN slurry generator.
Separator
Next Generation

• With the "bulky" construction in mind, we started working with our own ideas in vacuum ice and traditional snowproduction based upon binary ice and snow distribution.

• The target was to manufacture a semi-mobile system for high quantity production with a slim distribution system based on water for transportation.
The 300m³ slurry system
HydroFrio Chiller and Vacuum Ice Machine

- Compressor
- Condenser section
- Evaporator section
- Vacuum system
- Cooling water pump
- Water/ice pump
The mobile 300m³ Vacuum system
New ideas for snow distribution

• With a rapidly growing development in the understanding of ”over-summering” and storage preservation of snow, we have developed a new way of replacing truck distribution by using water.

• This device will enable the two mentioned systems,- Slurry ice and Vaccuum Ice to deliver almost dry snow over long distances
From Slurry and Vacuum systems

• The separator is simply connected to the production facility by means of two 40mm hoses. A slurry mixture (5-30%) is pumped from production to separation unit where the ice is transformed to REAL-SNOW.

• The transport water returns to the production to be reproduced to slurry ice.

• Distance can be 500 meter plus.
Snø separering
Snø separering
Relativt tørr snø 12m³/hour
Thank you