

ThorIce

Total Food Chilling Concept



TRADITIONAL CHILLING

100% EXTENDED SHELF LIFE

THOR ICE CONTROLLED CHILLING



ECO-friendly

Increased quality

Increased profit

Ofurkæling?

“Super chilling means reducing the temperature of fish uniformly to a point slightly below that obtained in melting ice, thereby extending the storage life of the fish. ”

www.fao.org

~-1 to -2°C

10-15 % ice

Storage at -1.4°C for salmon and -1°C for cod

Kostir og gallar
Praktísk vandamál
Hvað þarf til?

Aðferðir við „ofurkælingu“

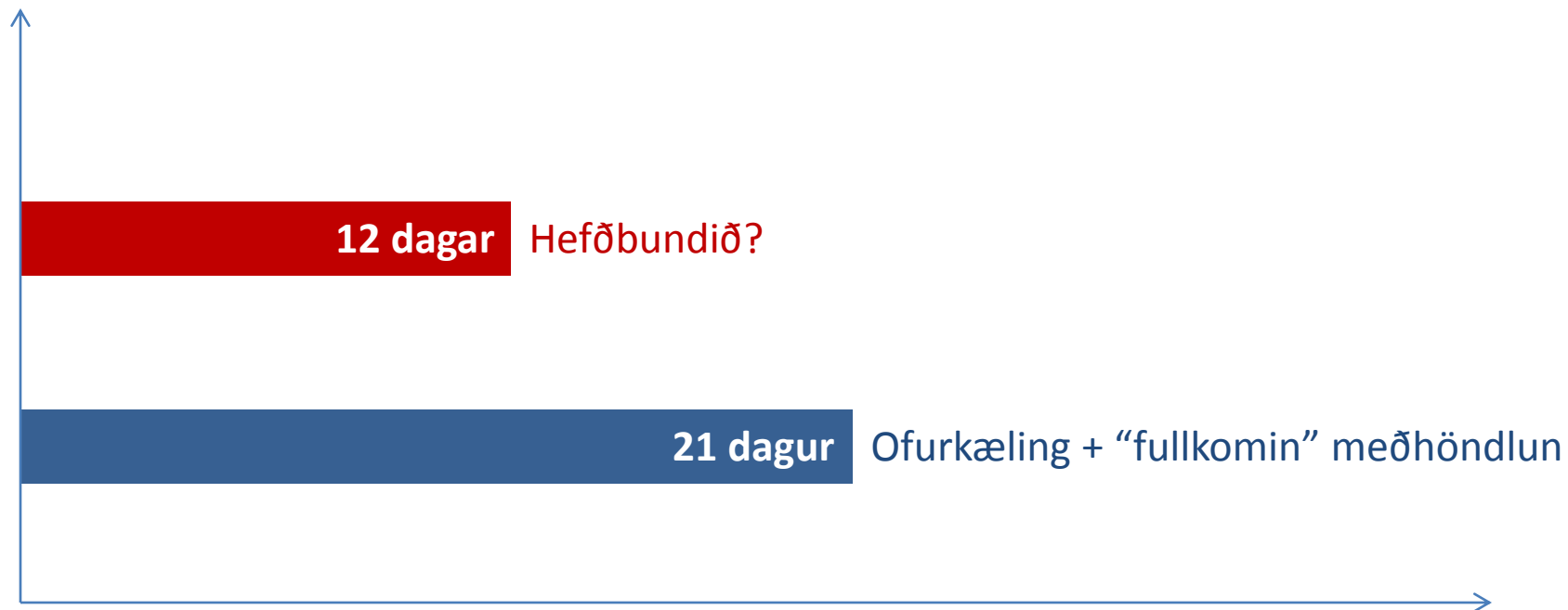
Hægt er að nota ýmsar aðferðir við ofurkælingu, með kostum og göllum:

- Ískrapi
- Kældur sjór
- Straumhraði með báðum
- Blástur
- Kæling

Allar eiga það sameiginlegt að þurfa nákvæma stýringu til þess að skila árangri.

Skref fyrir skref?

„ Fullkomin meðhöndlun “ tilraun sumarið 2014



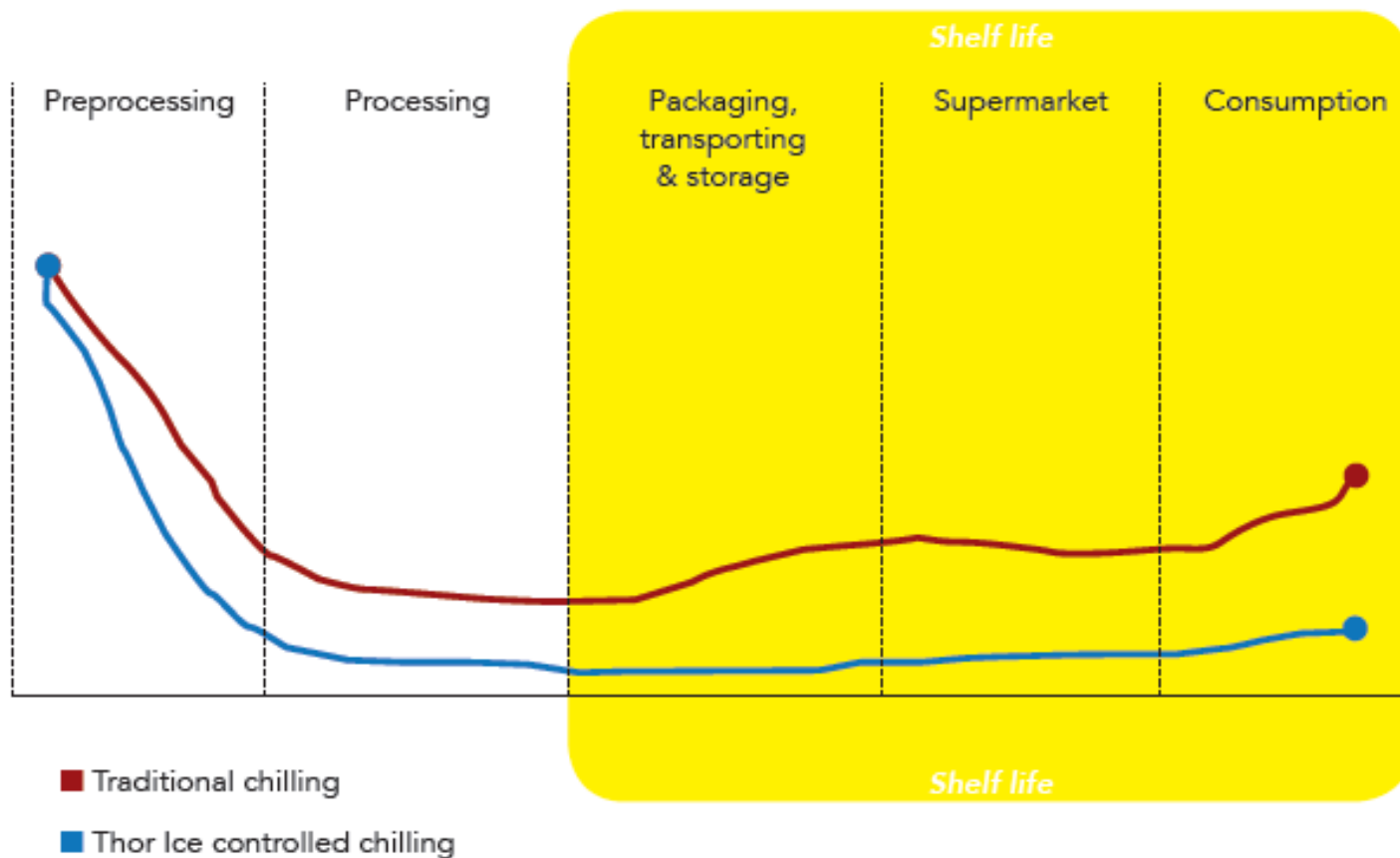
- Hvaða árangri á að ná?
- Er ástæða til þess að breyta núverandi aðferðum?

Stýra:

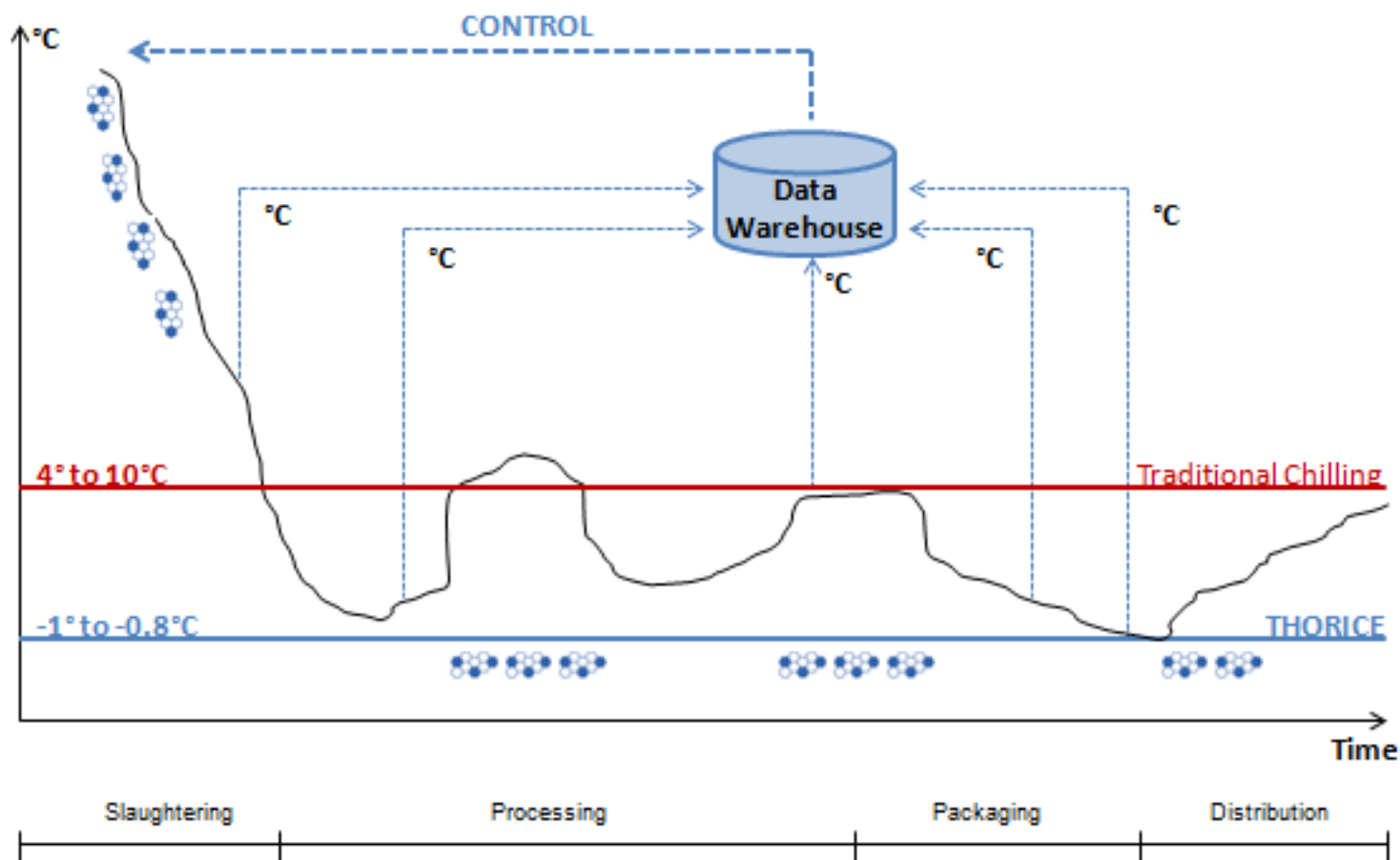
1. Hitastigi
2. Orku
3. Kælihraða

- Einfalt ferli skiptir máli
- Tryggja kælingu alla leið
- Er hægt að nálgast „ofurkælingu“

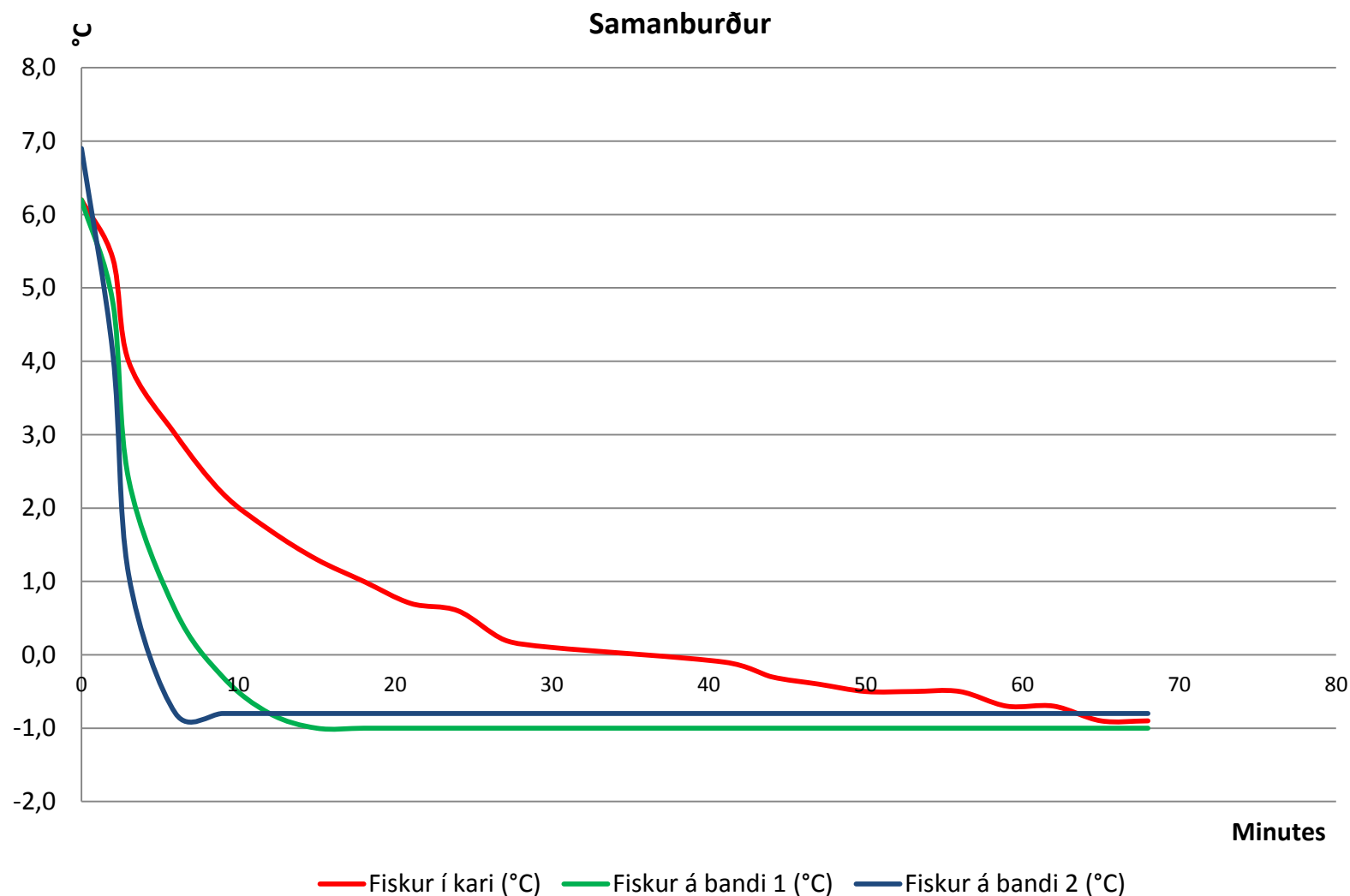
Chilling Concept



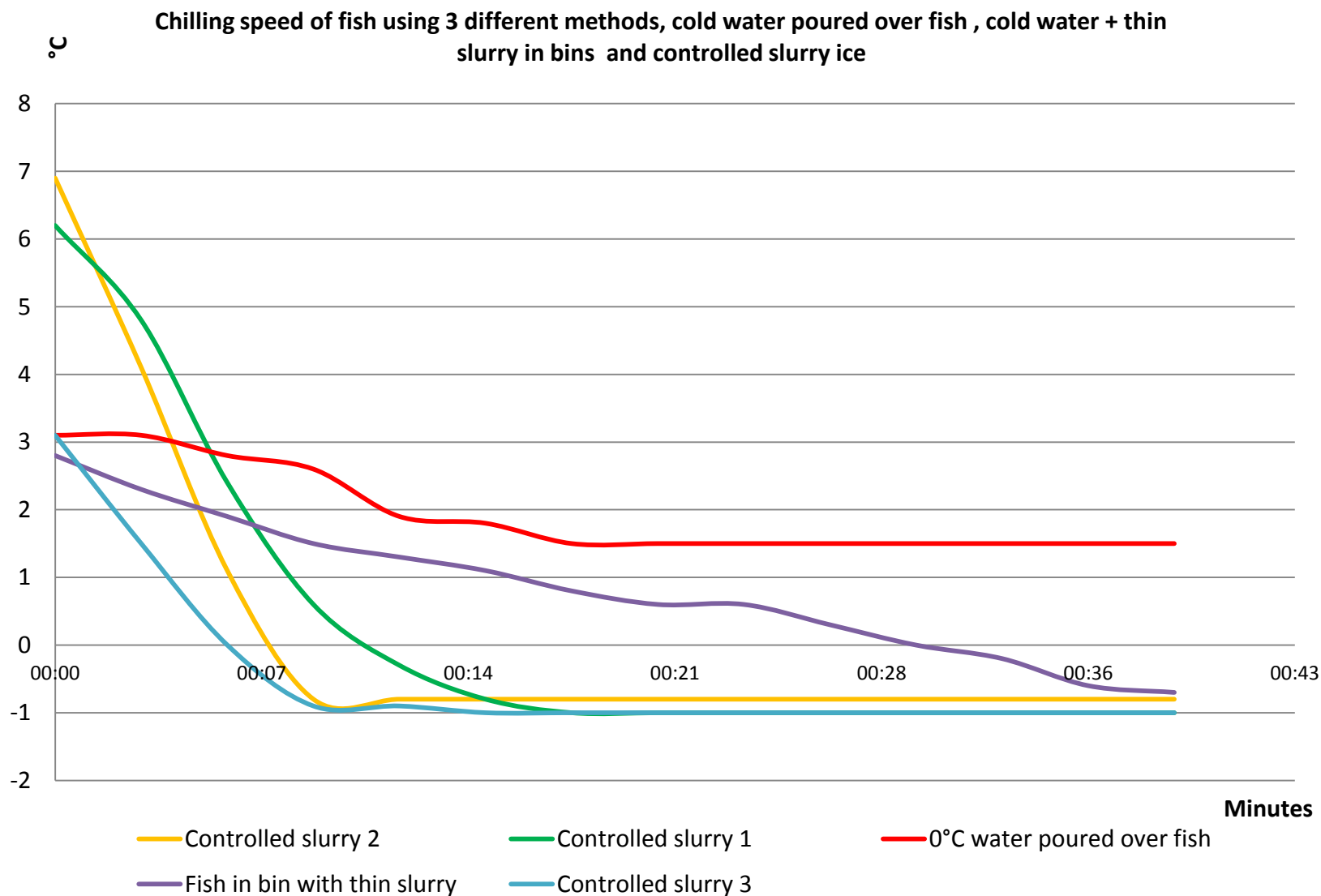
Stýrð ofurkæling og eftirlit



Flök – skotið með “stýrðum” ískrapa

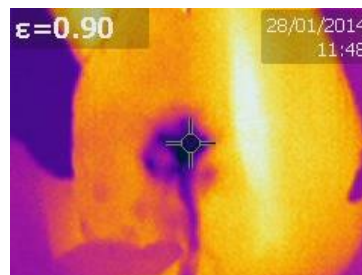


Flök - skotið með “stýrðum” ískrapa

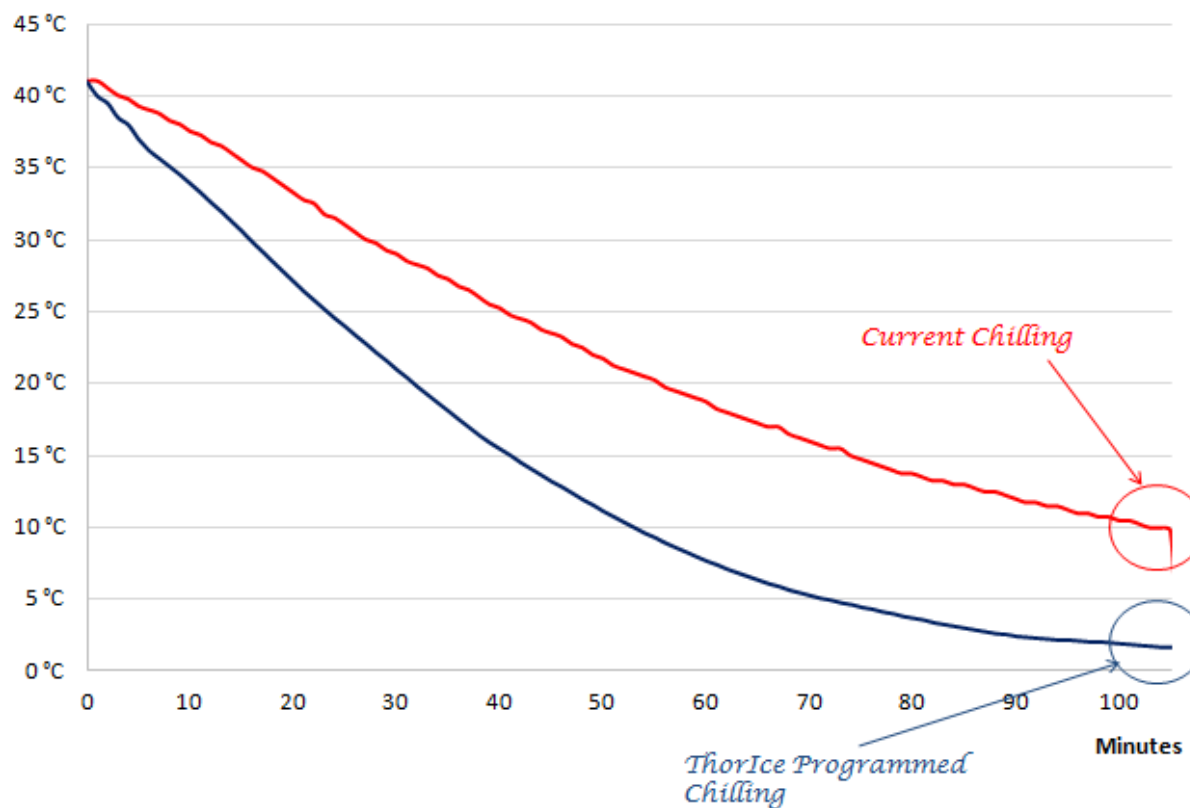


Ískrapi, stýrð kæling og kjúklingur

Controlled use of slurry ice
compliments spray chilling
technology



Current Chilling VS ThorIce Programmed Chilling



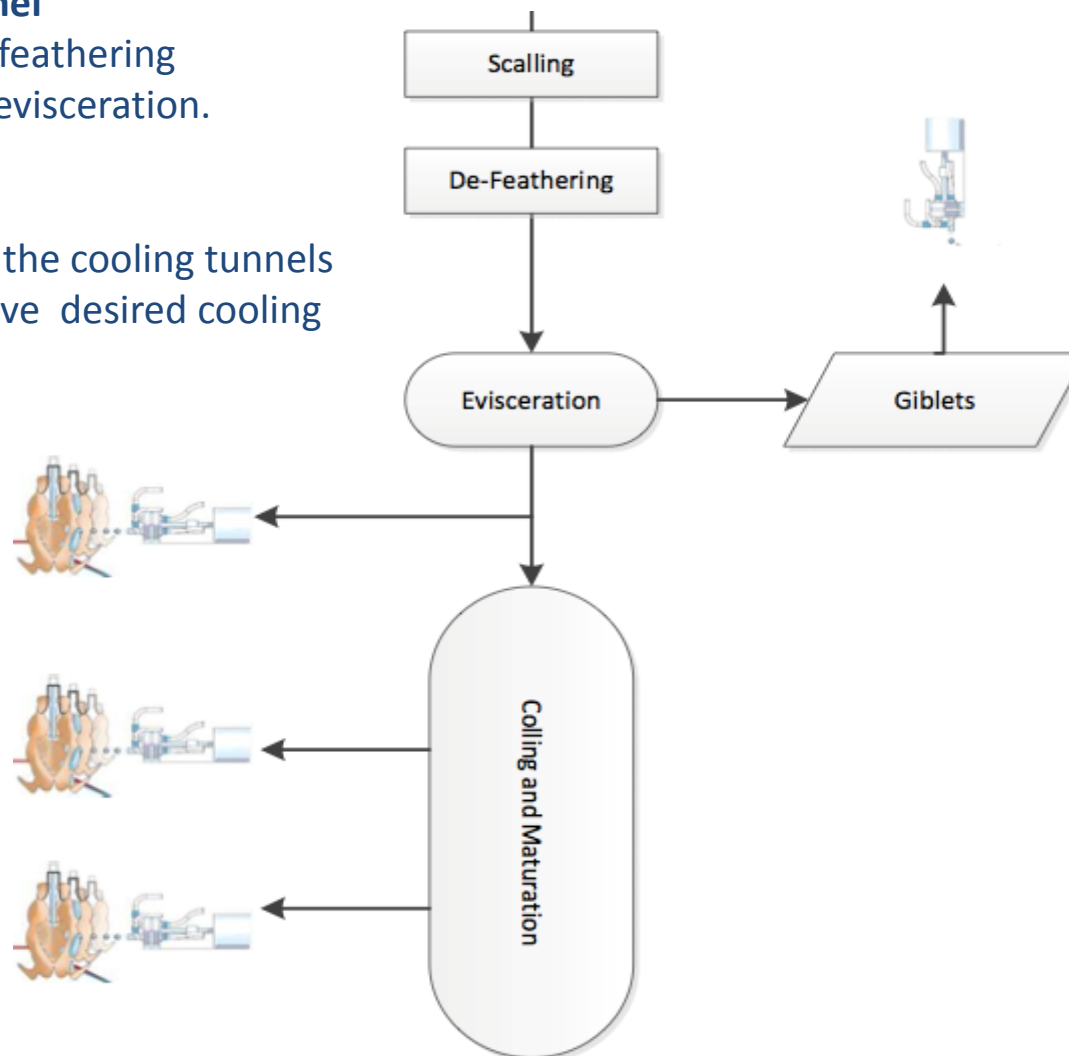
Slurry Ice Application

Precooling, before cooling tunnel

- Externally directly after de-feathering
- Internal and external after evisceration.

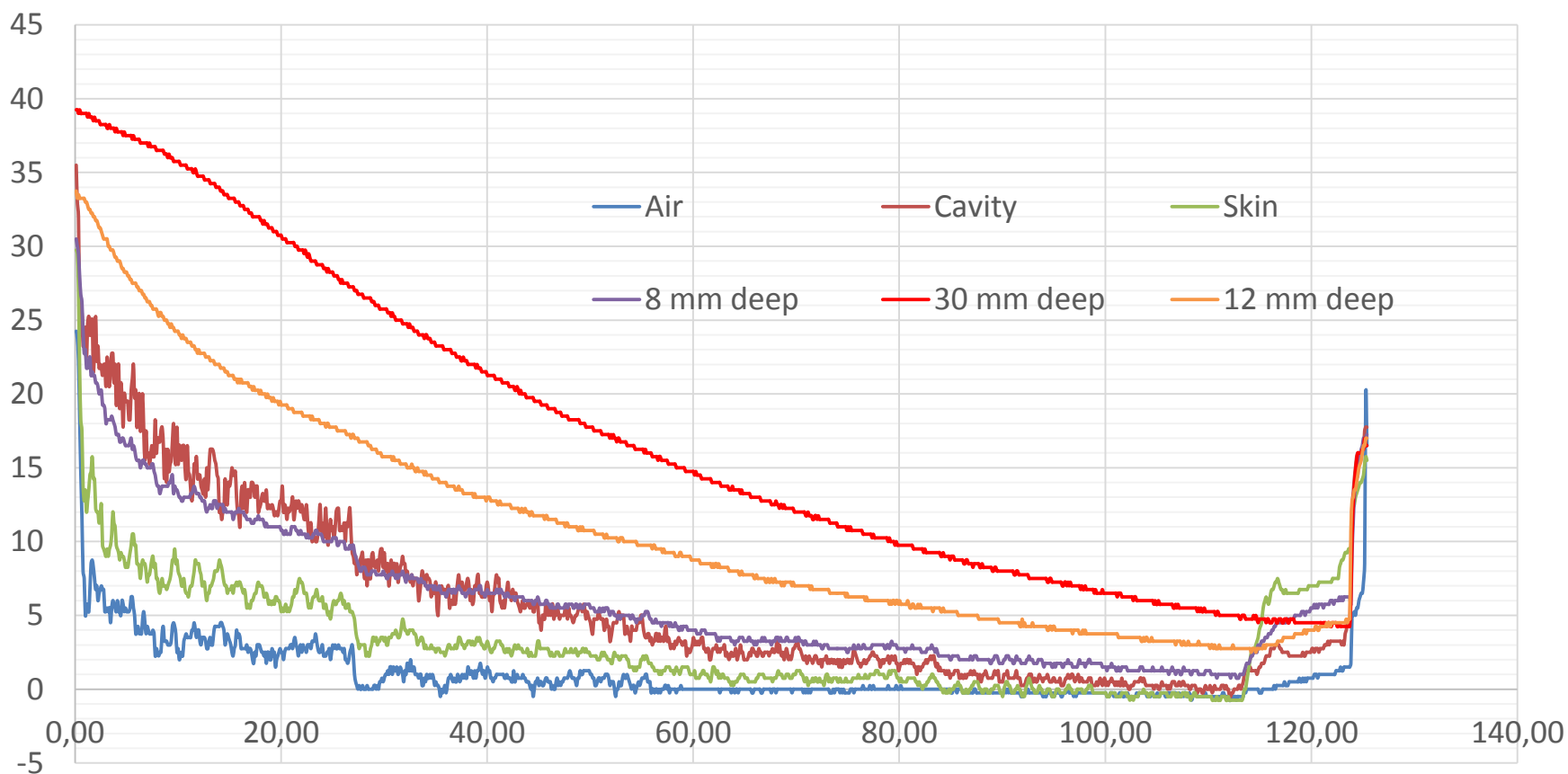
Inside the cooling tunnel

- External and internal along the cooling tunnels as needed in order to achieve desired cooling targets



Mælingar á mismunandi dýpt

Current situation R2 L1 L2



Why Controlled Chilling?

1. Full control and Monitoring of the chilling process ;
2. Documentation and Reporting ;
3. Preserves freshness and increases chilling throughput ;
4. Adjustable to external factors (size, outside temperature, etc.)
5. Reduce waste and Eco friendly
6. Plug-in to existing chilling line



Samvinna og samstarf skapar árangur



Þrátt fyrir einhverja samkeppni 😊

HG
Landssamband smábátæigenda
Ísfélag Vestmannaeyja
Skinney
Þorvaldur Gunnlaugsson