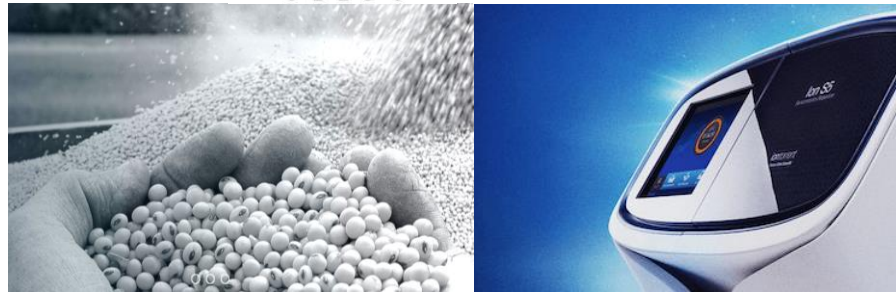




AgriSeq Technology: T-GBS as a potential tool for molecular breeding approaches. A practical overview by GDM SEEDS Company.

Gaspar Malone
Biotechnology Research Manager





GDM Seeds – An overview



N°1 Soybean Genetic Provider in South America



10 Breeding Stations in USA, Canada & Latam



More than 500 R&D locations around the world



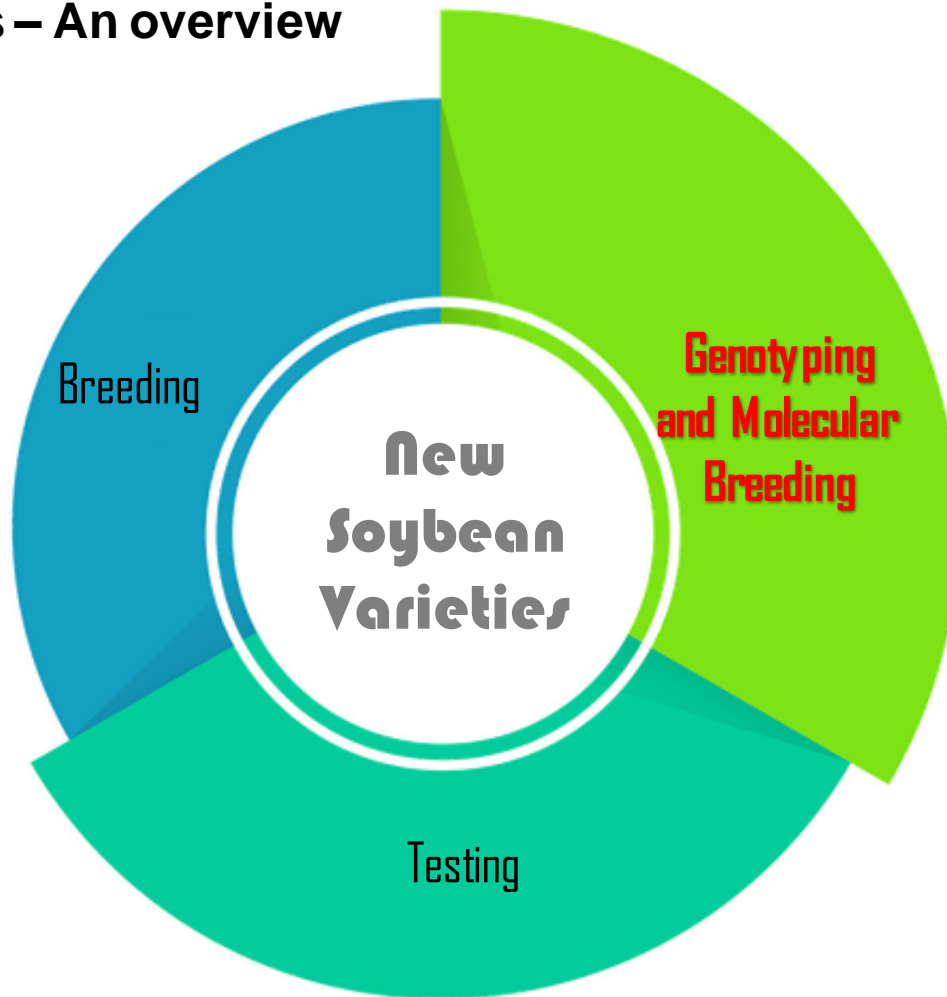
Genetics and Yield are our driving force

ThermoFisher
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GDM Seeds – An overview

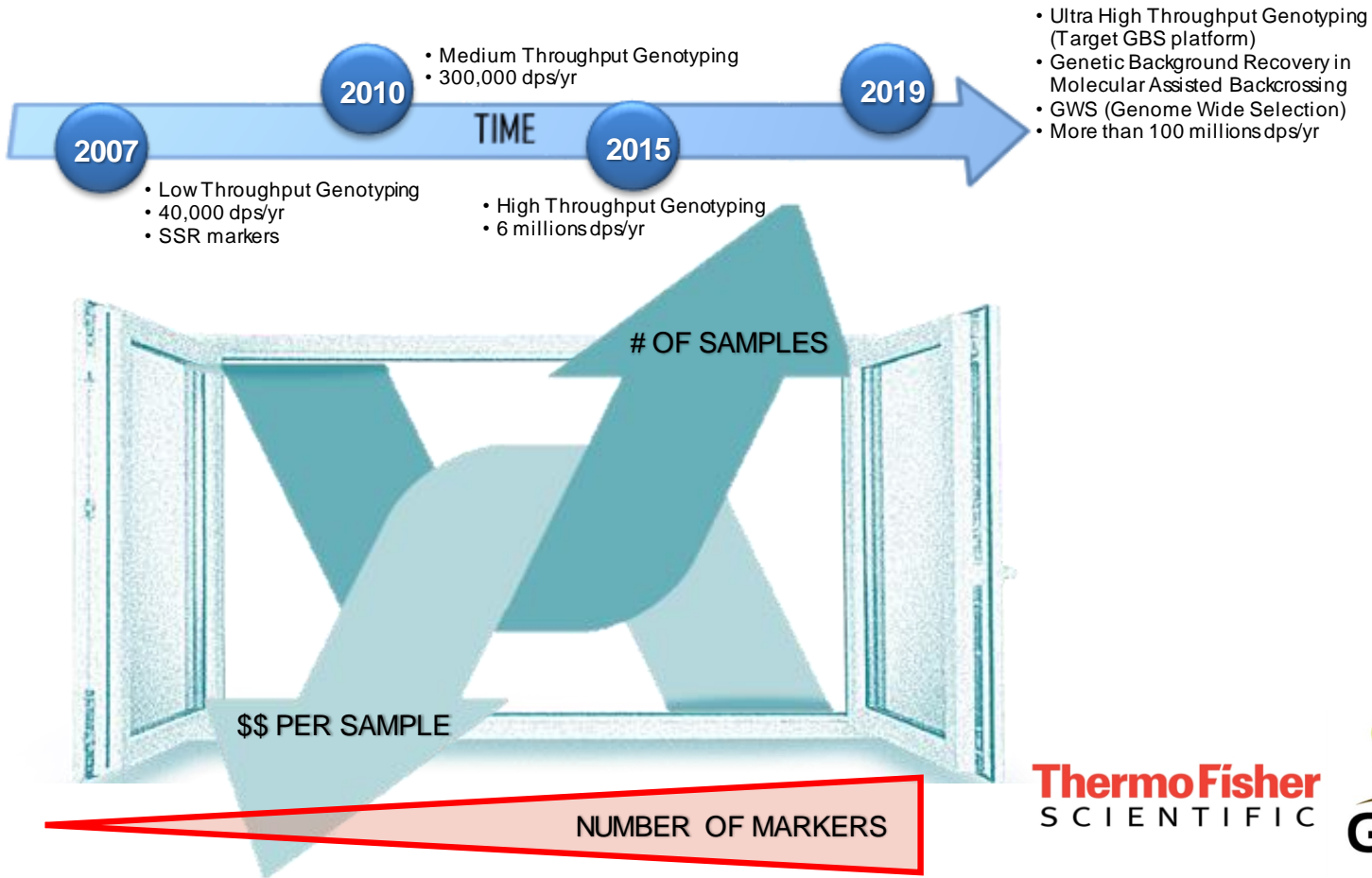


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Time Window – Biotechnology evolution at GDM Seeds



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Time Window – Biotechnology evolution at GDM Seeds

Number of molecular markers needed

Marker Assisted Selection

Gene Discovery

Fingerprint and Genetic Background Recovery

Genomic Wide Selection



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Implementing AGRISEQ™ technology for a High Throughput Targeting GBS at GDM Seeds

2016

- ION S5 + ION Chef (First AGRISEQ™ platform in Latin American)

2017

- Update to ION S5 XL (Now ION S5 prime)

2018

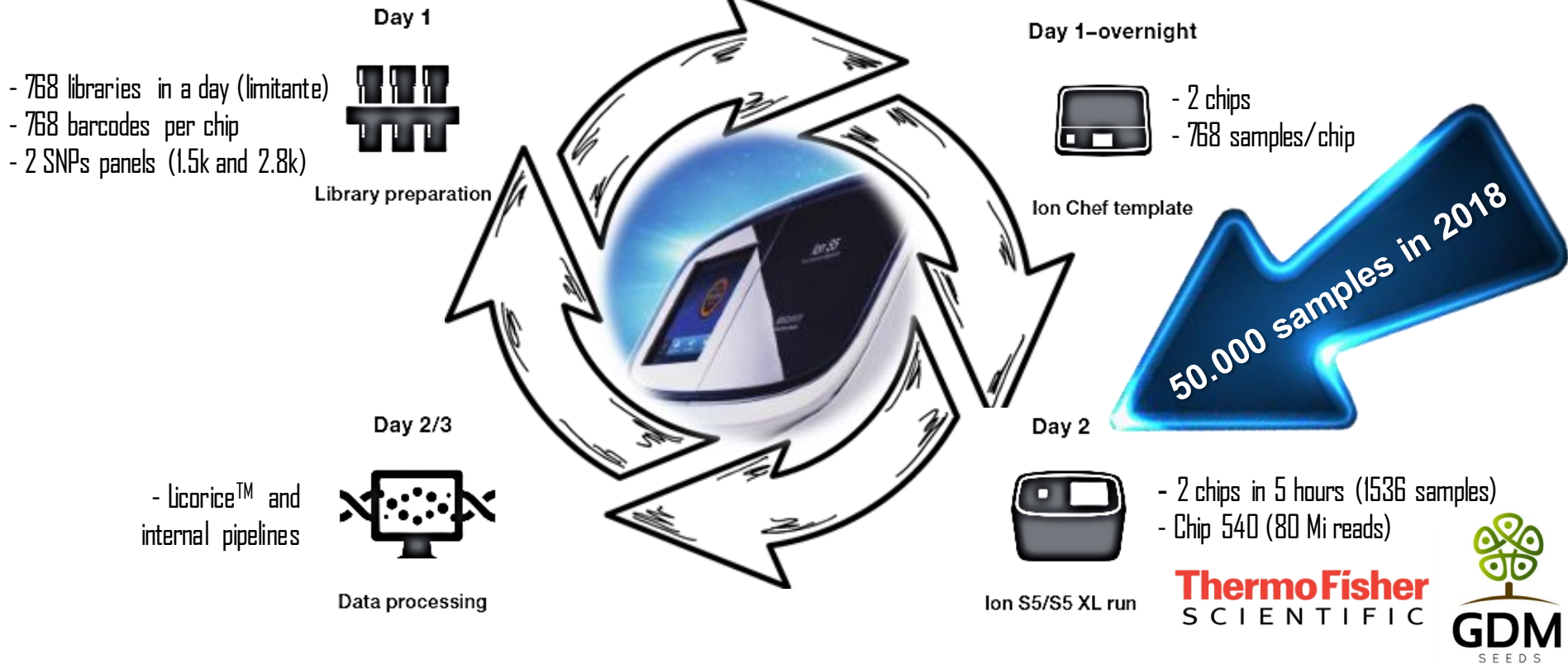
- Early Access to 384-768 barcodes

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Implementing AGRISEQ™ technology for a High Throughput Targeting GBS at GDM Seeds





Implementing AGRISEQ™ technology for a High Throughput Targeting GBS at GDM Seeds



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• 100% Chip 550 and Early Access to
• 768-1152 barcodes kit.

2019

2020

- Implementing another
- ION S5 prime platform at GDM Seeds.

• Up to 200.000 samples/yr.

2021



To finish...

- **AGRISEQ™ Technology has shown to be a revolution for marker-assisted selection in Crop Breeding Companies, offering an ultra-high throughput genotyping output.**
- **AGRISEQ™ Technology has allowed GDM Seeds to explore new breeding tools such as Genome Wide Selection, Background recovery, and multi-trait marker selection.**
- **Partnership with Thermo Scientific has been very successful for both Companies, and we hope it will go ahead for a long time.**
- **We thank all Thermo Scientific Team (Commercial, Scientific and Sales Teams) by supporting us throughout this period.**

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Thank you...

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