B-Medical Systems

Jesal Doshi, Director – Strategy

B medical systems

 Storage, transportation & processing of temperaturesensitive vaccines, blood and pharmaceuticals



Incorporation date in Luxembourg

1979



Number of employees in Luxembourg

250+



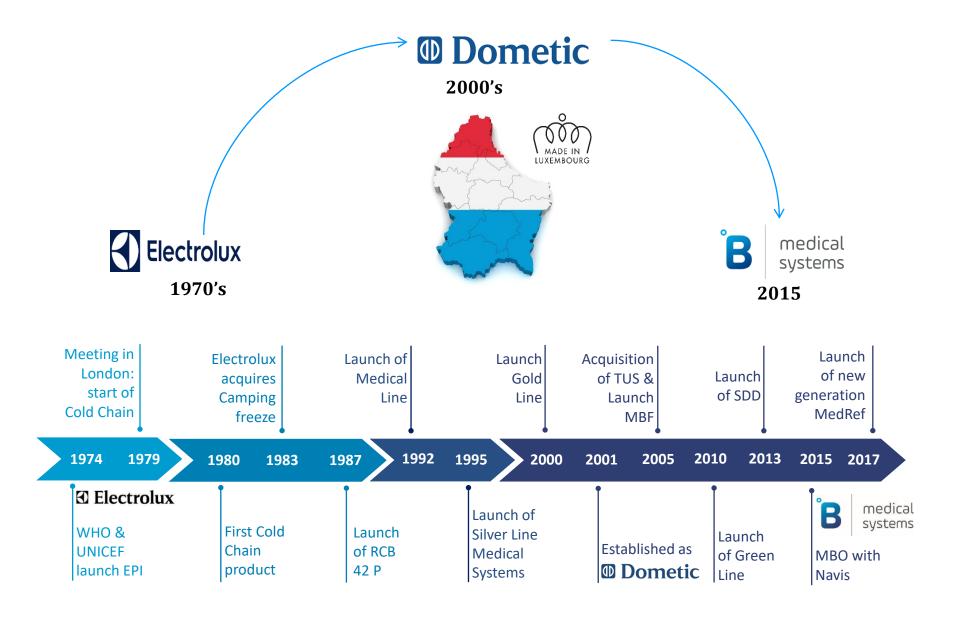


B Medical Systems- Shaping the future together





B Medical Systems - 40 years of global expertise in cold chain & medical refrigeration



Offers around 100 products across three segments: Vaccine Cold Chain, Medical Refrigeration & Blood Management Solutions



Vaccine Cold Chain

Reliable and innovative solutions for safe vaccination around the world





Medical Refrigeration

Safe and risk free storage, transport and handling of temperature sensitive products/preparations





Blood Management Solutions

Innovative and safe solutions for the storage and treatment of blood and its derivatives



Remote Monitoring Solutions

Our reliable and innovative products and solutions have helped to save millions of lives and to create billions of dollars in social and financial return

B Med develops and produces mission-critical medical technology solutions that are integral to the safe handling, storage and usage of essential temperature-sensitive biological materials

Vaccines

20 million⁽¹⁾ infants were not immunized in 2017 alone



Each B Med vaccine cold chain unit prevents more than 150 illnesses, helps to save over 25 lives and creates \$4.4m in social value over 10 years⁽²⁾



Blood and Plasma

112 million blood donations annually, with several million wasted due to improper handling and storage



Up to 700 blood bags can be stored in a B Med unit with zero risk of wastage due to comprehensive temperature monitoring and traceability



Biological Materials

\$35bn of pharmaceuticals are wasted every year due to temperature excursions



Invaluable life-saving specimens and research samples are safely stored for years in B Med's Ultra Low Freezers



Source: UNICEF (2017)

[&]quot;Cold Chain Reliability Social Value Results" - Prepared by Thoughts in Gear (June 2017).

Our technical capabilities are build around five core pillars:

Robotic Rotomolding

Industry Expertise

Technology Know-How

RFID technology

Real Time Data Monitoring



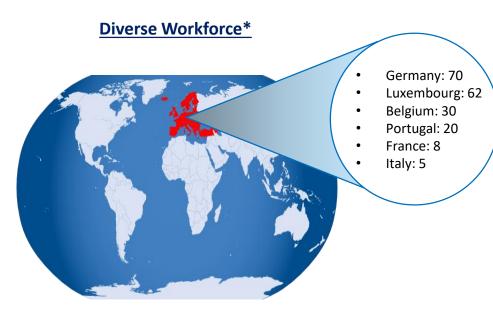
- B



- Technology leader in precision robotic rotomoulding for medtech equipment
- Synergetic use of rotomoulding across segments - Cold Chain, MedRef & Blood
- High-end medical ref expertise with >20 yrs experience in MedRef/ Cold Chain
- Deep customer understanding globally through dedicated sales network
- Dedicated R&D team with deep medical know-how to deliver true value add to customers
- Patented core technologies (e.g., for platelet agitator, shock freezers) to sustain techn. edge
- Proprietary RFID solution developed with partners Hemasoft and Biolog-id
- Technological platform to equip entire product range and position us as a solution provider
- GPRS based data logging solutions to provide real-time information on CCE for efficient maintenance
- Solution platform (B-connected) with potential to be used in all business segments

We Own the Entire Product Lifecycle (from Design to Sales and Service) to Ensure the best Product Reliability and Lowest Total Cost of Ownership

Significant investment in R&D and a diverse workforce in Luxembourg is key to our success

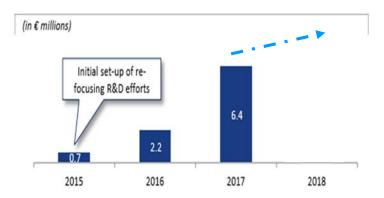


*Major nationalities

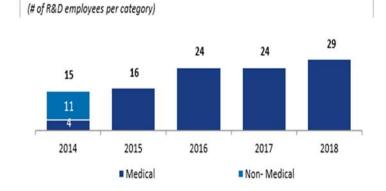
Product Innovations



Investments in R&D



Establishment of Strong R&D Platform



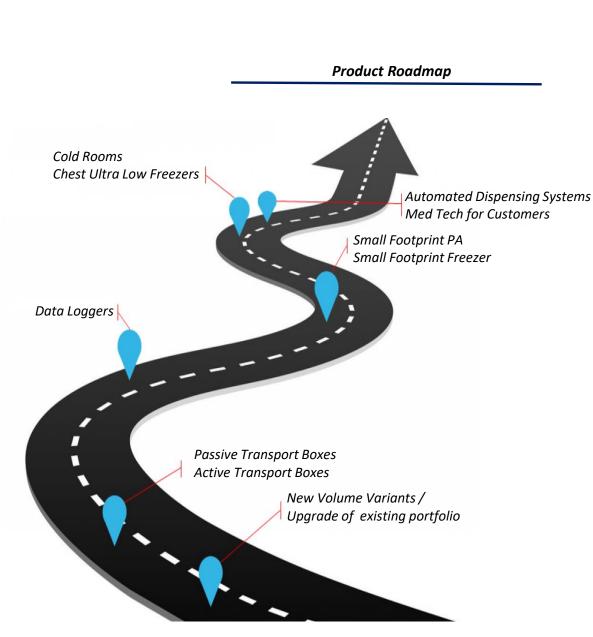
- We have nearly 30 R&D engineers today and are keen to add more.
 Our R&D engineers have a multi-cultural, multi lingual and multi
 disciplinary background
- B Medical has more than 100 patents and several products which are the only ones in the world
- We continue our innovation journey with the launch of 60+ new products in the last two years

Vaclog: Our World Wide Remote Monitoring System





Our future roadmap consists of a number of new innovative products and solutions and we are looking for partnerships in Luxembourg in several areas



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medical systems



SHAPING THE FUTURE TOGETHER Health