



LAB 4.0

SUSTAINABLE CONTINUOUS IMPROVEMENT
PROGRAM FOR THE OPTICAL INDUSTRY

LAB 4.0

DRAMATICALLY IMPROVE YOUR OPTICAL LAB OPERATIONS

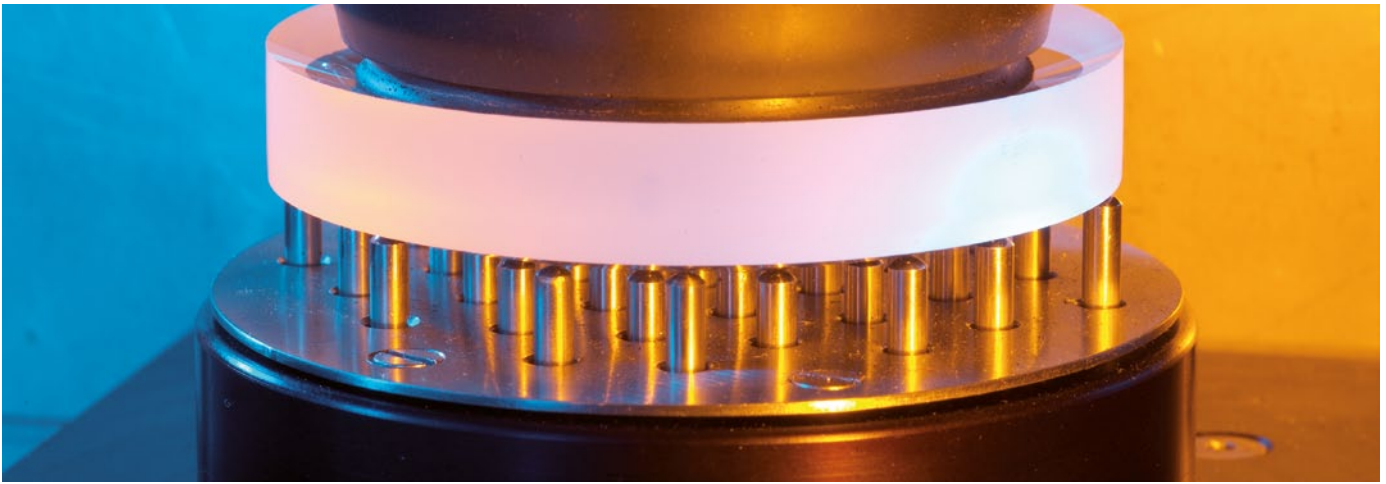
In many manufacturing industries, companies are now able to compete with off-shoring and at the same time increase quality, speed, and flexibility. Programs like Industry 4.0 merge industrial infrastructure with the Internet of Things, Cloud Computing, and a high degree of automation to create “smart factories”. This allows manufacturers to produce at superior levels of efficiency.

With Lab 4.0, Satisloh brings Industry 4.0/Smart Manufacturing to the optical industry and enables businesses to establish a truly industrialized lens manufacturing facility. Lab 4.0 focuses on

driving operational efficiencies: it lowers the cost per lens by drastically reducing labor as well as the consumption of consumables and parts while improving overall equipment effectiveness (OEE). The program leverages human-technology collaboration, increases a lab’s production quality and speed of delivery, all in a more sustainable, green way. The end result is increased revenue and maximized profitability.

Lab 4.0 is a continuous improvement program that consists of four elements and is based on the information gathered by Satisloh’s MES-360 Manufacturing Execution System.

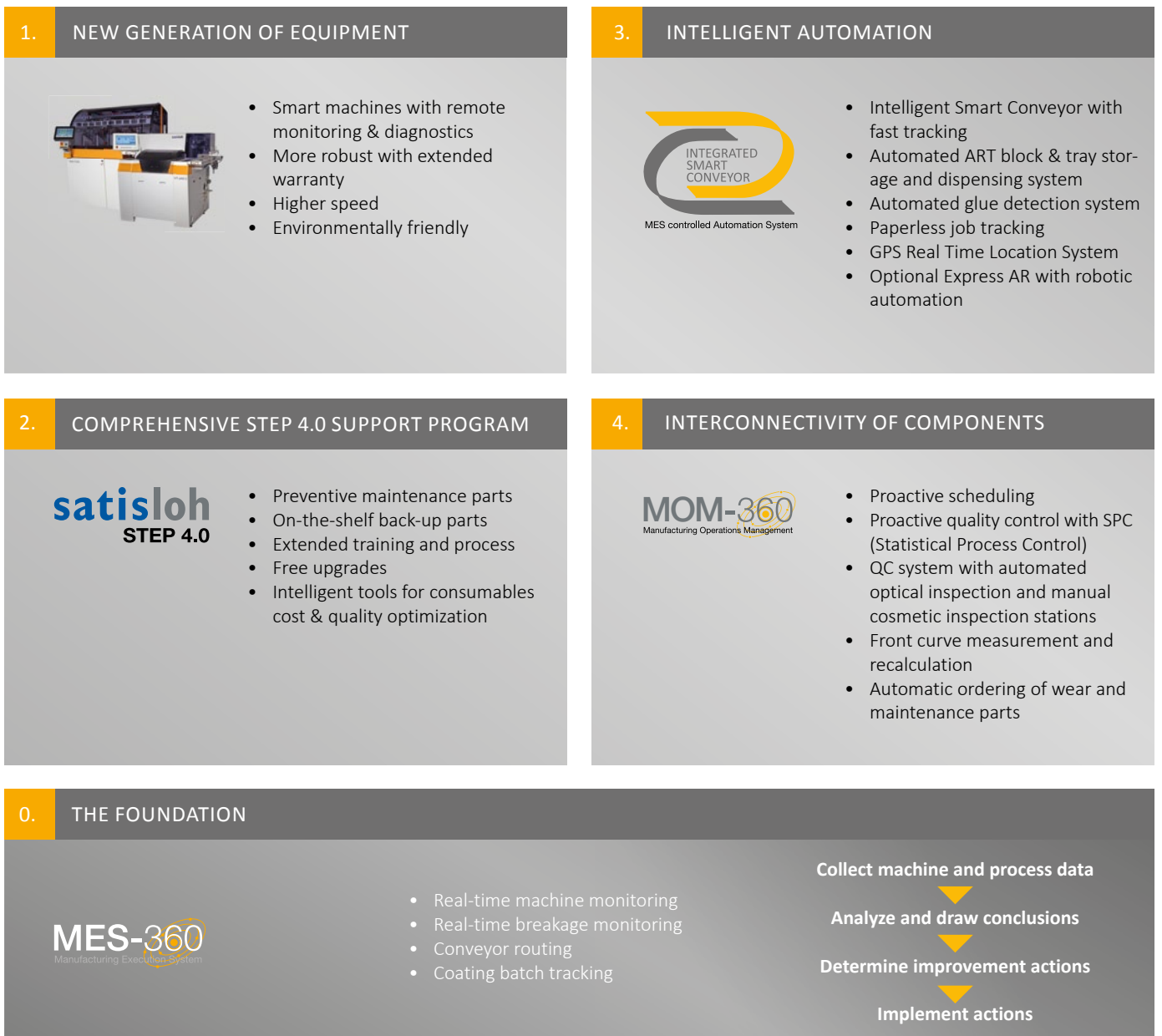




Lab 4.0 improves quality: ART Blocker measures blank front curve. If curve is off, MOM sends actual measurements to LMS or LDS for cutting path recalculation.

LAB 4.0 PROGRAM OVERVIEW

Lab 4.0 is a continuous improvement program that is based on four pillars with MES-360 as its foundation

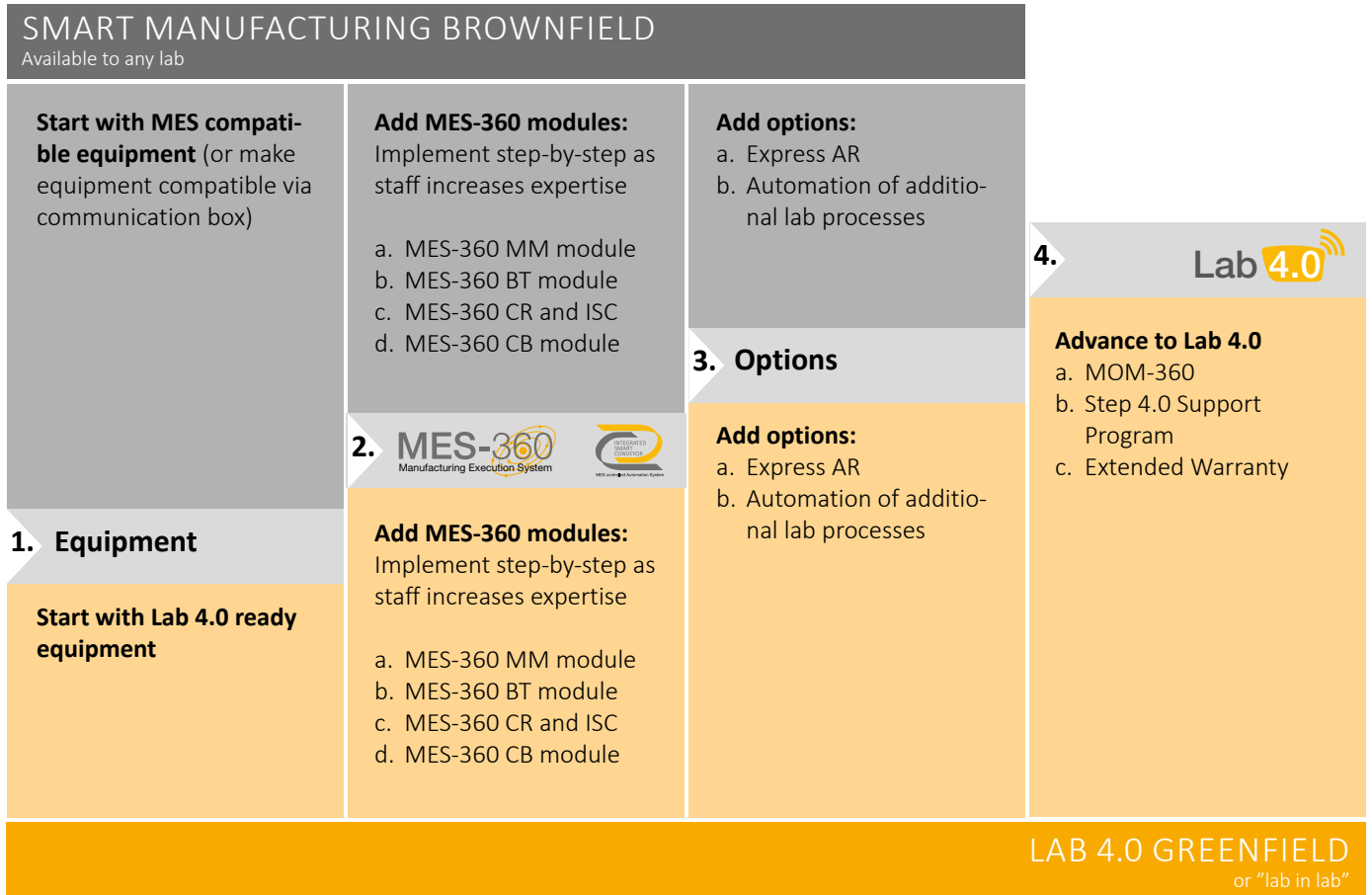


SMART MANUFACTURING ROADMAP

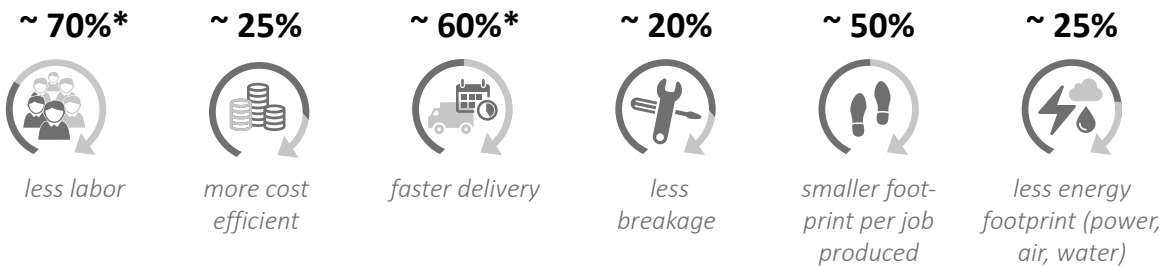
Turning your lab into a smart factory, step-by-step

Satisloh offers smart manufacturing solutions for all labs. A full Lab 4.0 implementation requires a Greenfield or a dedicated "Lab in Lab" but intelligent systems like MES-360, smart

conveyors and Express AR can be implemented in any lab. Regardless of which option is chosen, the modular approach allows a gradual roll-out.



LAB 4.0 BY THE NUMBERS



* Depending on whether Express AR is utilized

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