



Integrated SmartDose® Drug Delivery Platform Solutions: Fill-Finish



West is partnering with CMO's for SmartDose platform filling

West is enabling fill-finish as an integrated component of the SmartDose platform



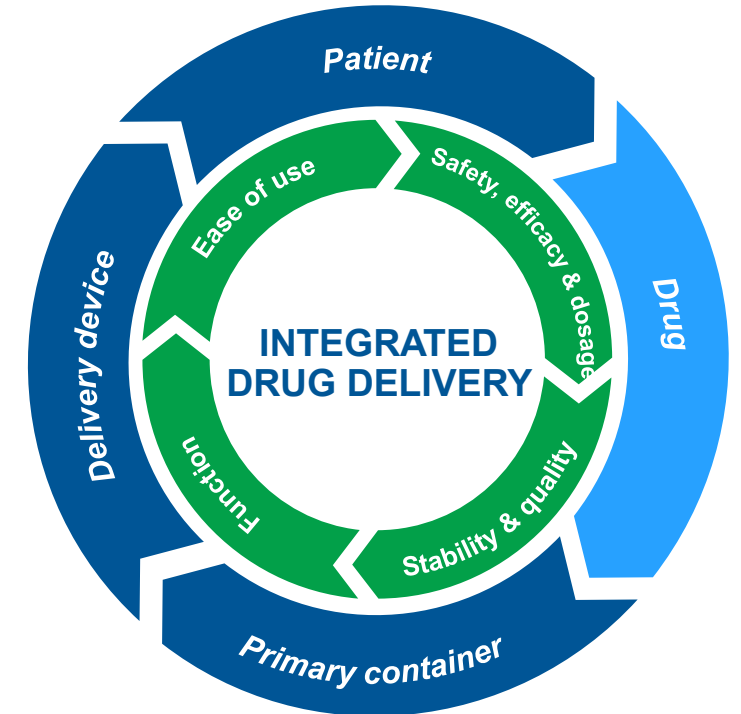
Through Partnership, West now offers a fill-finish pathway as part of our Integrated SmartDose Solution



Device + Drug Filling: A unique and differentiated offering

West's Integrated Solutions Program Can Help You:

- Streamline product development
 - Robust design and manufacturing capabilities
 - Analytical testing services
 - Fill-finish and assembly
- Optimize delivery to improve the customer and patient experience
- Integrated product management across device and drug product activities



With more than 95 years experience, West can help you Simplify the Journey™

In support of West's fill strategy, first partnership is announced

West announces Swissfillon as its first SmartDose platform fill-finish partner

- West recognizes the need for fill-finish options for our SmartDose platform, to facilitate our customers' path to market
- We are excited to announce Swissfillon as our first partner for SmartDose user loaded 10mL injector, with first clinical fills targeted in Q4 2019
- Swissfillon specializes in flexibility, quality and speed, with expertise in complex biologic fill-finish from clinical through small scale commercial
- With this partnership, West and Swissfillon are uniquely positioned to offer an integrated SmartDose platform solution

West + Swissfillon - unique, differentiated, integrated

West

A leader in containment and delivery solutions for injectable drug products



Swissfillon

Flexible fill-finish solutions for vials, cartridges and syringes, with fully automated aseptic processing

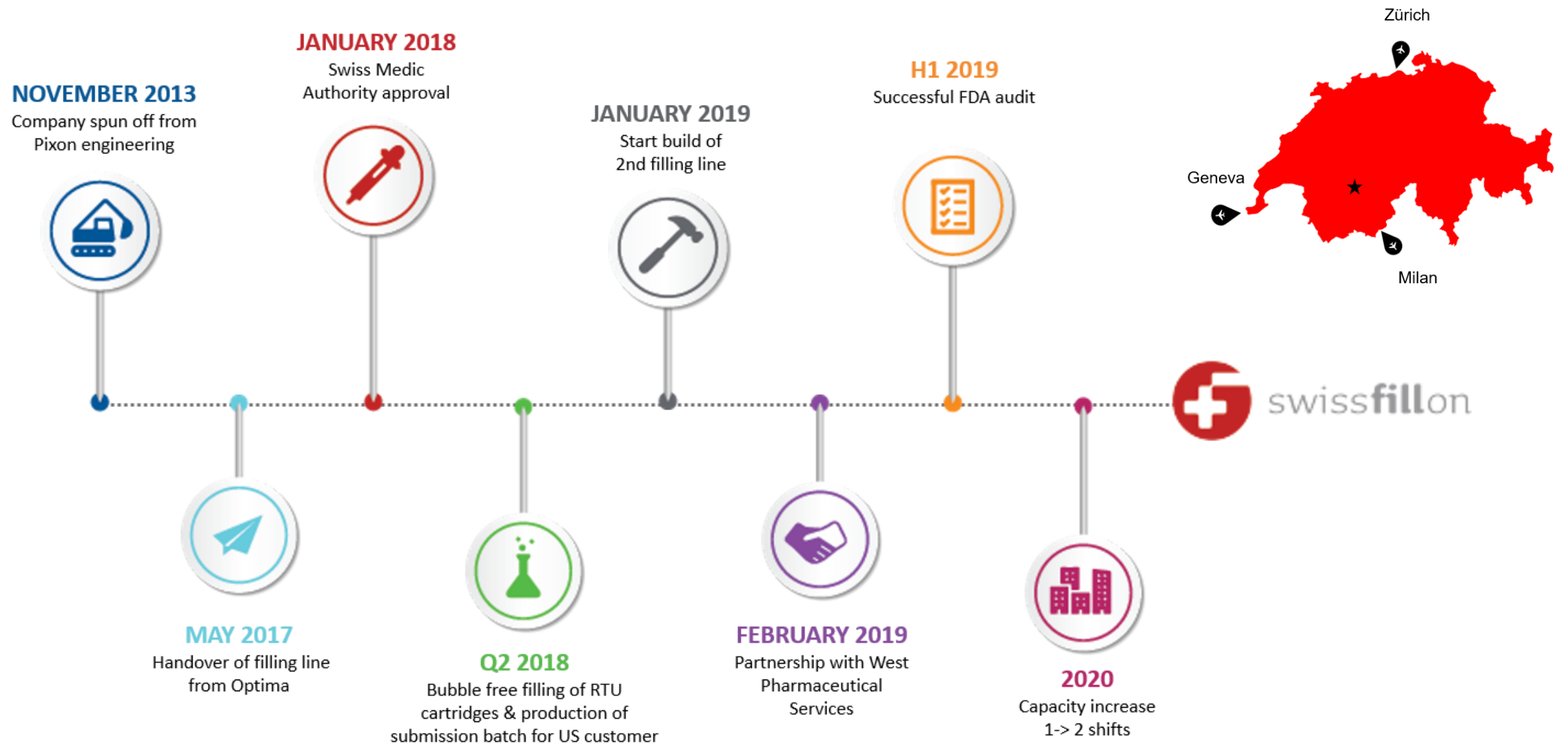
Integrated solutions for device and drug manufacturing

A global network supporting clinical to small scale commercial

Operational excellence with highest quality standards

Combined expertise to deliver superior integrated device solutions

Swissfillon – small, expert, flexible, accessible

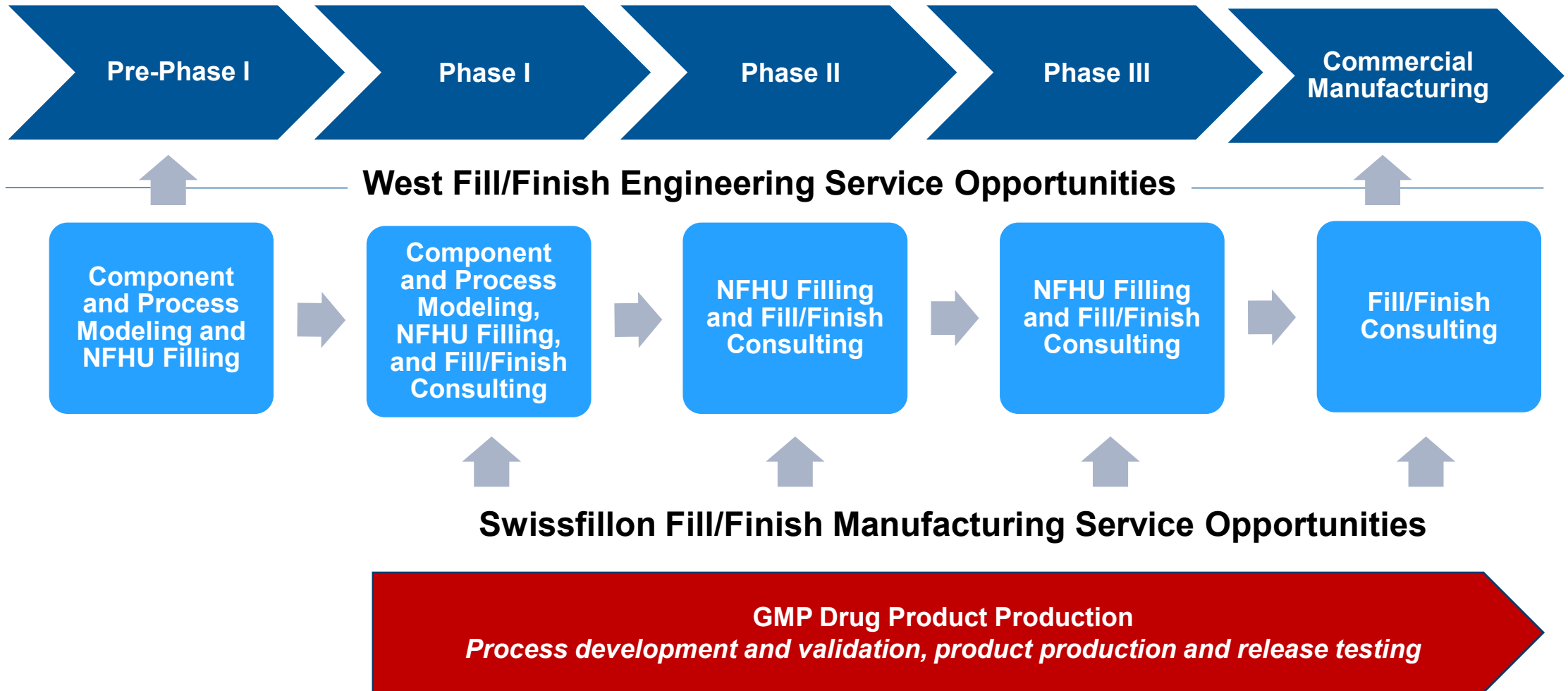


- **WHEN TIME AND QUALITY MATTER**
- One-stop-shop partner for all fill & finish related aspects from **clinical to small scale commercial** supply
- **Liquid aseptic filling** with possibility of inert gas purge and overlay:
 - **Vial filling** – high precision weight dosing: 2ml to 20ml
 - **Syringe filling** – high precision weight dosing: 0.5ml to 5ml (fill .1-4ml)
 - **Cartridge** - high-precision vacuum plug setting level dosing: Up to 3ml
 - **Liquid, sterile filling** up to 20,000 units / batch / day
- Offering **project consulting/management services** from process development to secondary packaging
- **Primary packaging development** to define the container/stopper validated to your product
- Fully automated aseptic processing for **1-100L GMP batches** including compounding



West + Swissfillon fill-finish spectrum – integrated solutions

Pharmaceutical Development and Commercialization Process



Partnering to simplify the supply chain for device development

West is Simplifying the Supply Chain with Integrated Solutions

Enabling an Optimized Experience for Customers and Patients



- West and the diamond logo and Simplify the Journey™ are trademarks and registered trademarks of West Pharmaceutical Services, Inc., in the United States and other jurisdictions
- SmartDose® is a registered trademark of West Pharma. Services IL, Ltd., a subsidiary of West Pharmaceutical Services, Inc.
 - Swissfillon and logo is a trademark of Swissfillon AG
 - Copyright © 2019 West Pharmaceutical Services, Inc. All rights reserved.