Alliance Business

Develop a Growth Driver by Infusing
Core Technologies with a New Business Model

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Safe Harbor for Forward-Looking Statements and Use of Document

Among the information that Terumo discloses, the forward-looking statements including financial projections are based upon our assumptions using information available to us at the time and are not intended to be guarantees of future events or performance. Accordingly, it should be noted that actual results may differ from those forecasts or projections due to various factors. Factors affecting to actual results include, but are not limited to, changes in economic conditions surrounding Terumo, fluctuations of foreign exchange rates, and state of competition.

The market share information in this presentation is partly derived from our own independent research.

Information about products (including products currently in development) which is included in this material is not intended to constitute an advertisement or medical advice.

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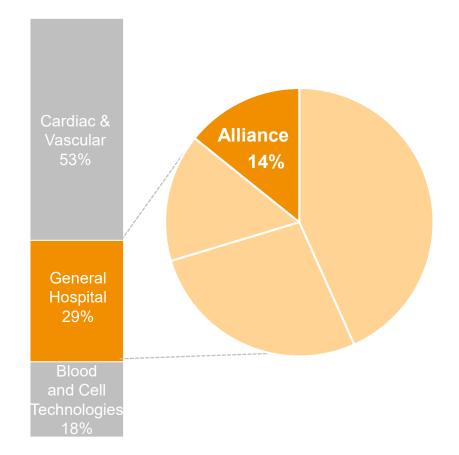


"Alliance" Business within Terumo

B2B: Provides pharma w/ devices to add additional value to drug and contract manufacturing

A division of General Hospital company with annual sales of 20 BJPY







Alliance Business Trajectory



For Safety

Entry into combination

products

Plus efficiency

Devices to be kitted w/ drug ample/vial

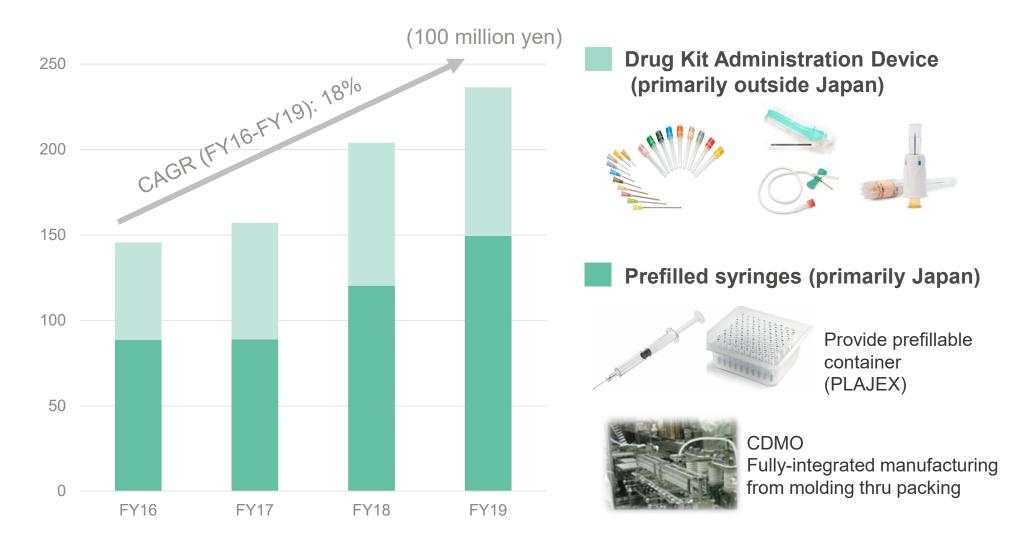
Plus Efficacy & Diversity

Biosimilar using PLAJEX has launched in EU



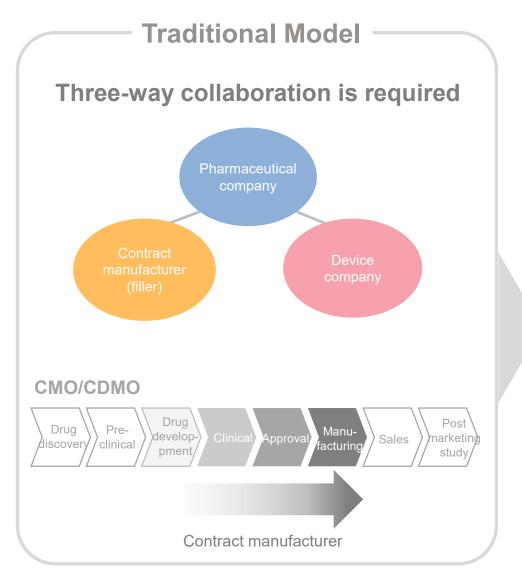
Next Mid- to Long-term Growth Strategy

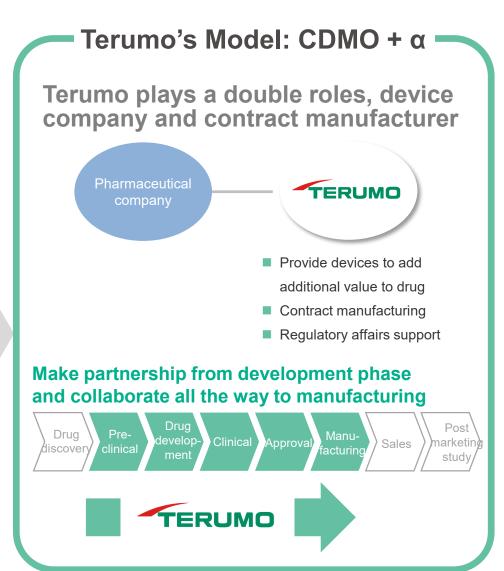
Entering Growth Phase





Unique Business Model







Captured Emerging Needs for Change in Drug Trend

Change in Drug Trend



Small-molecule: Orally administered drugs

Large-molecule and biopharmaceutical: Injected drugs

Emerging challenges

- Delicateness of biologics
- Technologies to handle small volume,high viscosity drugs
- Difficulty of regulatory affairs for combination products
- Diversified drug delivery

Terumo's solutions

- Silicone oil-free, aseptic filling
- Filling technology for small volume, highviscosity drugs
- Regulatory affairs support for the big three markets of US, EU, and Japan
- Diverse drug delivery options and customizability



Next Moves for Sustainable Growth

Use core technologies to further strengthen customization capability for increasingly diverse drugs



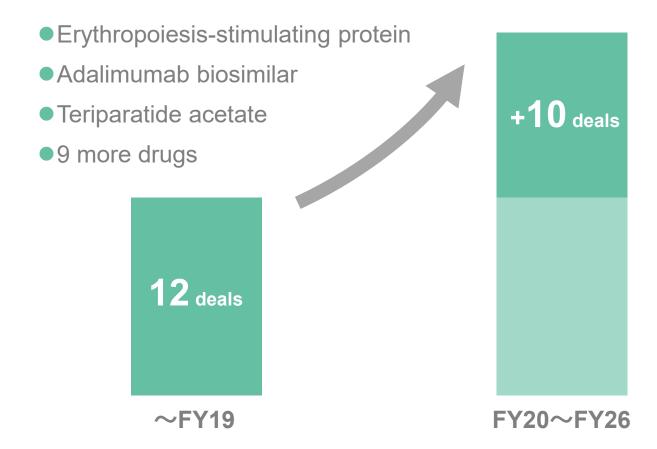
Steady preparation for growth outside Japan

Jul 2018 Prefilled syringe manufacturing line of biologics certified for EU GMP
 Nov 2018 Premix IV solutions manufacturing certified GMP compliant by US FDA
 Jul 2020 Contract manufacturing of biosimilar Hulio certified GMP compliant by US FDA

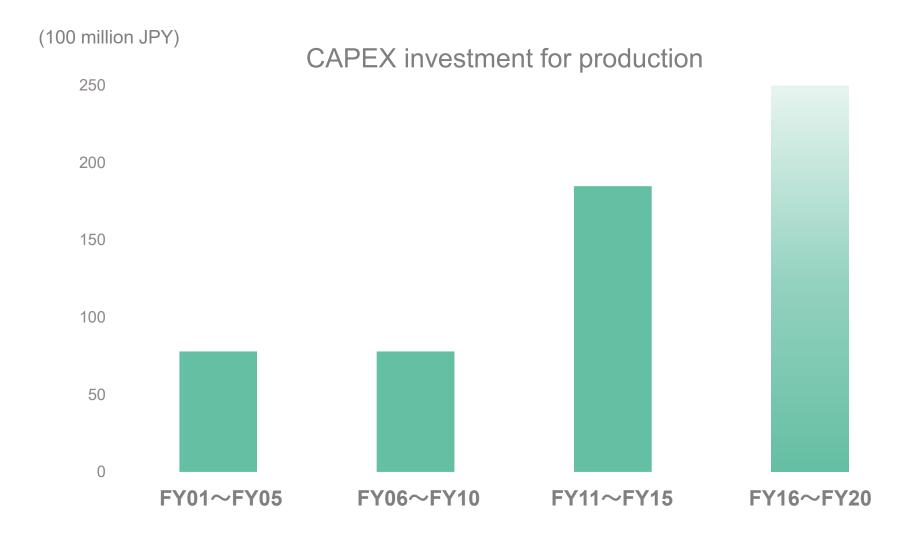


Seamlessly Expanding Development Pipeline

Deals projected from ongoing co-developments



Expand Production Capability thru Constant Investments





KSF to Secure Sustainable Growth Trajectory

- Ample drug delivery technologies to meet a wide variety of drugs
- Filling and sterilization technologies to manage sensitive drugs
- Knowledge and experience of development, evaluation, regulatory affairs, and clinical development for combination products
- Track record and long-term commitment to earn the trust of pharmaceutical companies



Extend Our Market Reach with "Alliance" Model

Capture the expansion of healthcare scene by innovation of combined technologies

