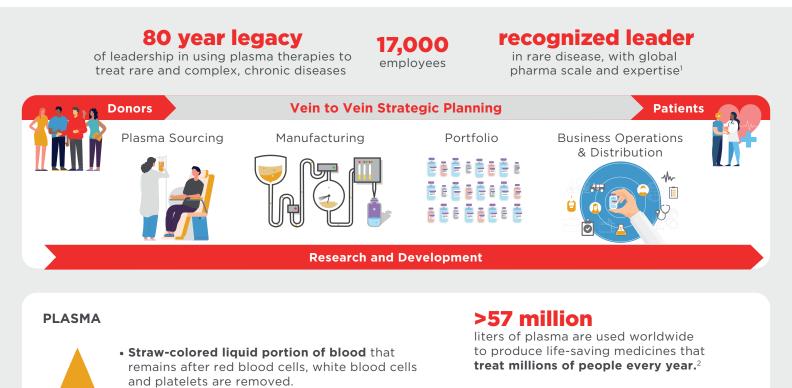
TAKEDA'S PLASMA-DERIVED THERAPIES BUSINESS UNIT:

Our ambition is to transform the lives of patients through innovation and sustainability from plasma donation to delivery of medicines

Takeda's Plasma-Derived Therapies (PDT) Business Unit (BU) is **fully dedicated to serving the needs of communities around the world who rely on plasma-derived therapies** based on the therapeutic proteins in plasma.

One of the **top three plasma organizations** in the world, Takeda's PDT BU is **rethinking the entire plasma value chain** to help ensure a more sustainable supply of these therapies today and for the future.





8.000

dedicated

screening labs

staff

Global demand for PDTs has dramatically **increased over the last 20 years** and continues to grow.³⁻⁴

Plasma donations needed for **1 patient for 1 year** to provide adequate therapy⁵...

100's - 1,000+

ONE OF THE MOST INNOVATIVE PLASMA DONATION NETWORKS IN THE WORLD:

BioLife, Takeda's network of plasma donation centers

Global plasma donation network recognized for its industryleading donation safety standards.⁶ Modern, high-quality centers that offer an unparalleled donation experience.⁷

• Essential for treating patients with a variety of

rare and complex, chronic diseases for which

cannot be created in an artificial environment.

there are few or no other treatment options.Can only be collected from healthy individuals;

Reaching more patients through a differentiated donor experience through investments in:

- In-person and omni-channel personalized engagement, from initial consideration to actual donation.
- Harnessing data and digital to drive value.
- Collaborations with technology leaders.

>200

state-of-the-art plasma collection facilities in the US and Europe

>30

centers in Austria, Czech Republic and Hungary

on track to deliver **>65%** growth in collection FY18 - FY23

1 Takeda Rare Diseases Areas of focus. Available at https://www.takeda.com/what-we-do/areas-of-focus/rare-diseases/, last access June 2021. 2 An Analysis of the impact of International Transfer of Plasma on the availability of Immunoglobulin Therapies. The Marketing Research Bureau, Inc., The Source, Fall 2019. 3 Analysis of supply, distribution, demand and access issues associated with Immune Globulin Intravenous (IVIG). Available at https://aspe.hhs.gov/system/files/pdf/75031/report.pdf%20last%20access%20June%202021 https://aspe.hhs.gov/system/files/pdf/75031/report.pdf last access June 2021. (p.12). 4 Marketing Research Bureau, Inc., European Blood Alliance and International Plasma and Fractionation Association (EBA-IPFA) Amsterdam, the Netherlands 14-15 January 2020. 5 Plasma Protein Therapies - Who needs plasma protein therapies. Available at https://www.pdaglobal.org/plasma-protein-therapies, last access June 2021. 6 Takeda. Plasma-Derived Therapeutics. Pathogen Safety Monograph. 7 Bain & Co. Plasma donor survey 2015.



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MAKING THE MOST OF EVERY DONATION: State-of-the-art manufacturing advances

Global network of 8 world-class manufacturing facilities



World-class capabilities in pathogen safety and virology through our Biosafety Level 3 (BSL-3) lab to safeguard donors and patients.



Highly complex biologics production. PDTs can take **between 7 and 12 months** from donation to delivery vs. **3 months** for typical pharmaceuticals.



Significant **investment across our manufacturing network,** with a focus on efficiency gain, operational excellence and sustainability, has driven year on year increase in capacity.

Increasing capacity by more than 65% (FY18-FY23) through next-generation production processes, digital technologies and novel partnership approaches.⁸

LIFE-LINE THERAPIES: our PDTs support people with life-threatening, rare and chronic diseases

A broad, differentiated portfolio of **more than 20 plasma-derived products**,⁹ including a diverse offering of subcutaneous IG (SCIG) therapies.

Hundreds of thousands of people worldwide rely on our therapies.



PDTs treat a range of diseases, including:

Immune deficiencies and certain neurological disorders, blood volume replacement, Alpha-1 Antitrypsin deficiency, Hemophilia, Hereditary Angioedema and shock/trauma.

DELIVERING MORE THERAPIES TO MORE PATIENTS: Innovation focused on patient impact



- Dedicated, expert R&D team working to uncover new transformative solutions for the benefit of patient communities worldwide.
- Enhancing our current portfolio.
- Expanding indications and reaching new geographies to help more people.
- Finding new ways to improve the patient experience with complete care solutions.
- Pioneering discovery efforts to pursue novel plasma-based therapies, mining the significant untapped therapeutic potential in plasma.
- Discovering new approaches in areas where plasma could be uniquely beneficial.
- **100+ registrations and approvals** planned over the next three years.

LOOKING AHEAD: A continual pursuit to deliver greater impact, in line with Takeda's values



- Aspiring to bring better health for people and a brighter future for the world through a future-ready organization.
- Drawing on rich data, digitalizing and collaborating in innovative ways to set new standards for our industry.
- Leading a community dialogue to support more reliable global plasma supply through collaborations with governments and policy makers.
- Supporting Takeda's sustainability goals to be 100% carbon neutral by 2040, have 0% waste to landfill by 2030 and 5% reduced water use by 2025.
- Nurturing a diverse, equitable, inclusive and stimulating environment to attract and retain expert teams.

8 Realizing the Potential of Plasma-Derived Therapies Investor Relations Day, Covington, GA, November 2019 https://www.takeda.com/4ab4df/siteassets/system/investors/report/quarterlyannouncements/fy2019/pdt_20191115.pdf. 9 Takeda Plasma derived therapies portfolio. Available at https://www.takeda.com/what-we-do/ are-as-of-focus/plasma-derived-therapies/, last access June 2021.

