

The evolving healthcare landscape inspires us to rethink how we deliver care

Growing patient population

Between 2015 and 2030, the number of people aged 60 years or over is expected to grow by 56%, from 900 million to nearly 1.5 billion¹

Significant global orthopaedic procedure growth through 2030



+71%

Hip replacements could rise to an estimated 4.0MM procedures annually²



+104%

Annual knee replacement procedures are estimated to grow from 2.3MM to 4.7MM³



+121%

Procedures for shoulder replacement are estimated to reach 497K⁴

Shift to outpatient

More than **51%**

By 2026 more than 51% of total joint replacement procedures will shift to ambulatory surgery centers and outpatient surgeries globally⁵

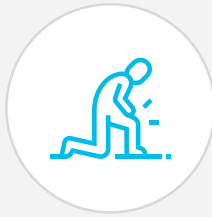
Rising healthcare costs

Nearly **2x**

From 2019-2023, the compound annual growth rate for global healthcare spending is expected to double compared to the 4 years prior⁶

There are unmet needs across the orthopaedic care continuum

Data collection lacks connectivity before, during, and after surgery.



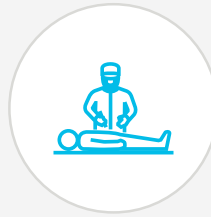
Pre-operative

Patient selection is often complex and highly subjective



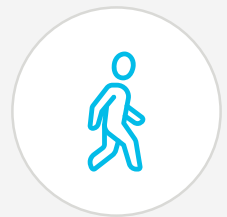
Surgical planning

Plans are designed with limited personalization, sometimes leading to variability in outcomes



Intra-operative

Ineffective delivery systems and variation in surgeon performance can lead to time and cost inefficiencies



Post-operative

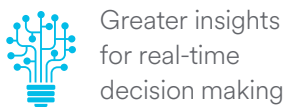
Rehab may not be personalized or timely and follow-up may be limited

DePuy Synthes is committed to addressing these opportunities and advancing orthopaedic care through VELYS™ Digital Surgery



Powering insight-driven care across the continuum

A platform of connected technologies powered by data insights and designed to elevate the orthopaedic experience—from pre-op to post-op—by enabling:



Greater insights for real-time decision making



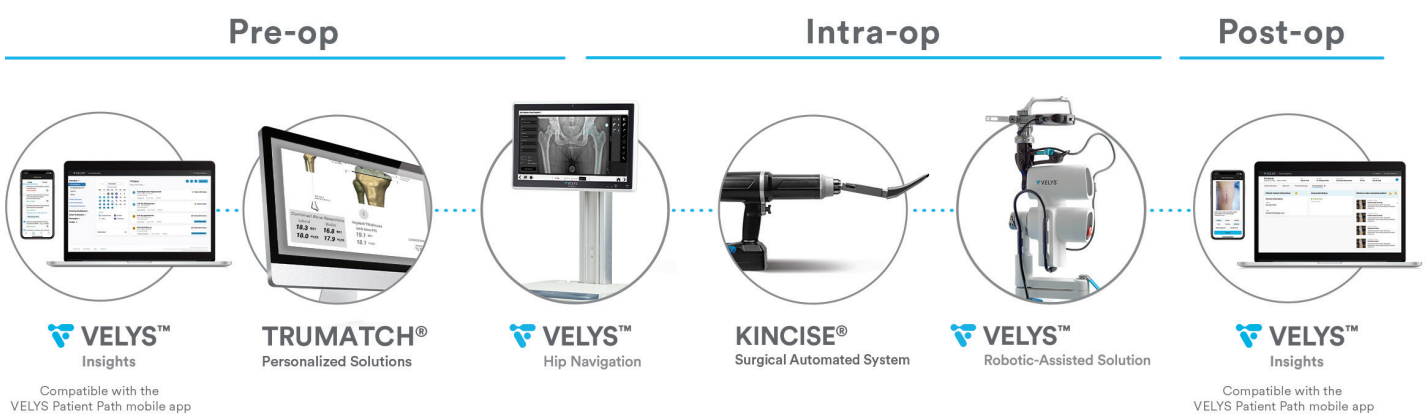
Greater precision and consistency



A more personalized care experience

Solutions for Joint Replacement

We are actively building our digital surgery offerings:



Over time, VELYS Digital Surgery will add new technology solutions across DePuy Synthes platforms. Visit www.VELYSDigitalSurgery.com for more information.

References: **1.** Haseltine WA. Aging populations will challenge healthcare systems all over the world. *Forbes*. April 2, 2018. Accessed October 16, 2020. <https://www.forbes.com/sites/williamhaseltine/2018/04/02/aging-populations-will-challenge-healthcare-systems-all-over-the-world/#62aa73cd2cc3>. **2.** GlobalData. 39 country hip reconstruction market model dataset, 2019. Accessed November 15, 2020. <https://www.globaldata.com>. **3.** GlobalData. 39 country knee reconstruction market model dataset, 2019. Accessed November 15, 2020. <https://www.globaldata.com>. **4.** GlobalData. 39 country shoulder reconstruction market model dataset, 2019. Accessed November 15, 2020. <https://www.globaldata.com>. **5.** Outpatient joint replacement: an unnecessary concern or market reality. Vizient website. November 8, 2016. Accessed November 10, 2020. <https://newsroom.vizientinc.com/outpatient-joint-replacement-an-unnecessary-concern-or-market-reality.htm>. **6.** Allen S. 2020 global health care outlook: laying a foundation for the future. Deloitte Global Health Care. Accessed November 5, 2020. <https://www2.deloitte.com/global/en/pages/life-sciences-and-healthcare/articles/global-health-care-sector-outlook.html>.