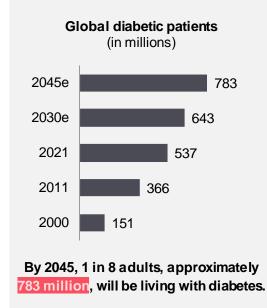
### BREAKING BARRIERS IN DIABETES

Artificial Pancreas in Action

## **Epidemiology and Prevalence of Diabetes**



Implanted Artificial Pancreas

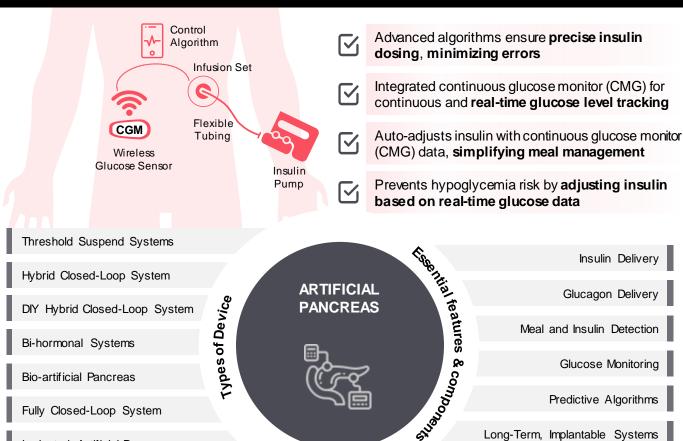
Countries with the highest number of diabetics by 2021 ~ 140 million ~ **32.2** million 10.6% 10.7% (of population) (of population) INDIA CHINA USA 77 million 9.6% (of population)

> Rise in the prevalence of diabetes is fueling Enhanced adoption rate and

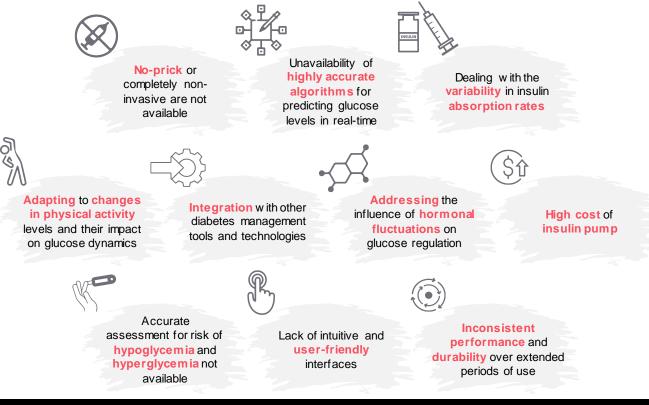
- Need for innovation

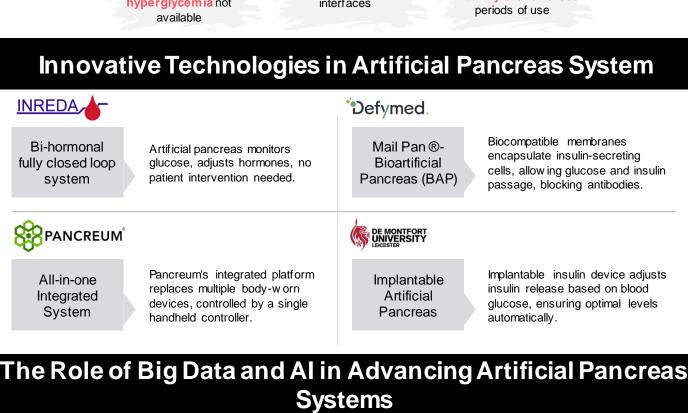
in artificial pancreas systems

#### **Artificial Pancreas Systems: Why Consider Them?**

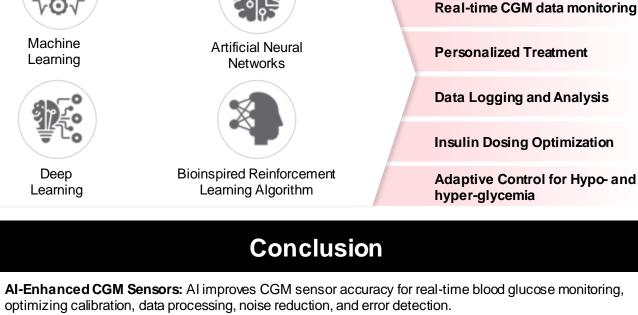


#### **Limitations of Current Artificial Pancreas Systems**





# Fully automated system

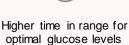


- Biometric Data Integration: Future APS includes biometric data (heart rate, skin temp, etc.) in a closed-loop system, enhancing sophistication in glucose level management.
- Dual Hormone Systems: Development of dual hormone artificial pancreas systems, integrating insulin and
- stable synthetic glucagon, advances comprehensive glucose regulation. Advanced Algorithms: APS focuses on advanced algorithms addressing person-to-person and day-to-day glucose variability for adaptability and personalized regulation.

effectiveness and personalization of glucose regulation, ultimately improving the quality of life for individuals

managing diabetes through APS. Prospective Developments in Next-Generation Artificial Pancreas Systems







Quality of Life Improvement: Overall, these advancements promise to significantly enhance the





About FutureBridge FutureBridge is a techno-commercial consulting and advisory company. We track and advise on the future of industries from a 1-to-25-year perspective to keep you ahead of the technology curve, propel your growth, Identify new opportunities, markets and business models, answer your unknowns, and facilitate best-fit solutions