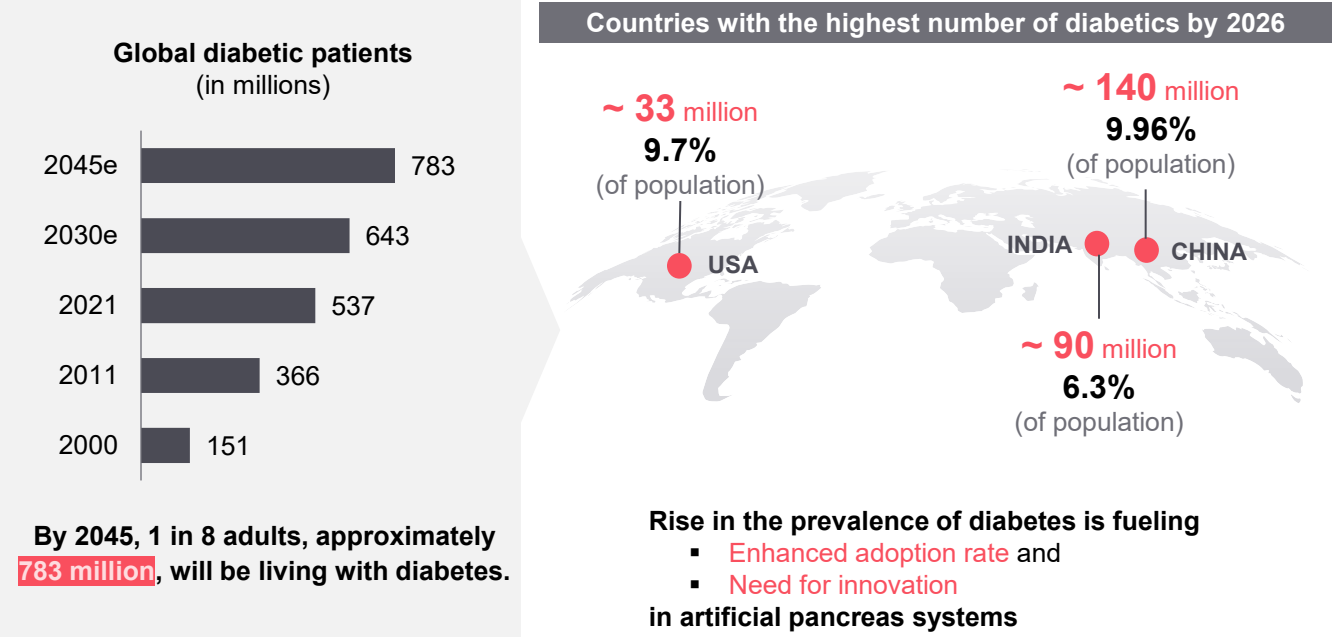


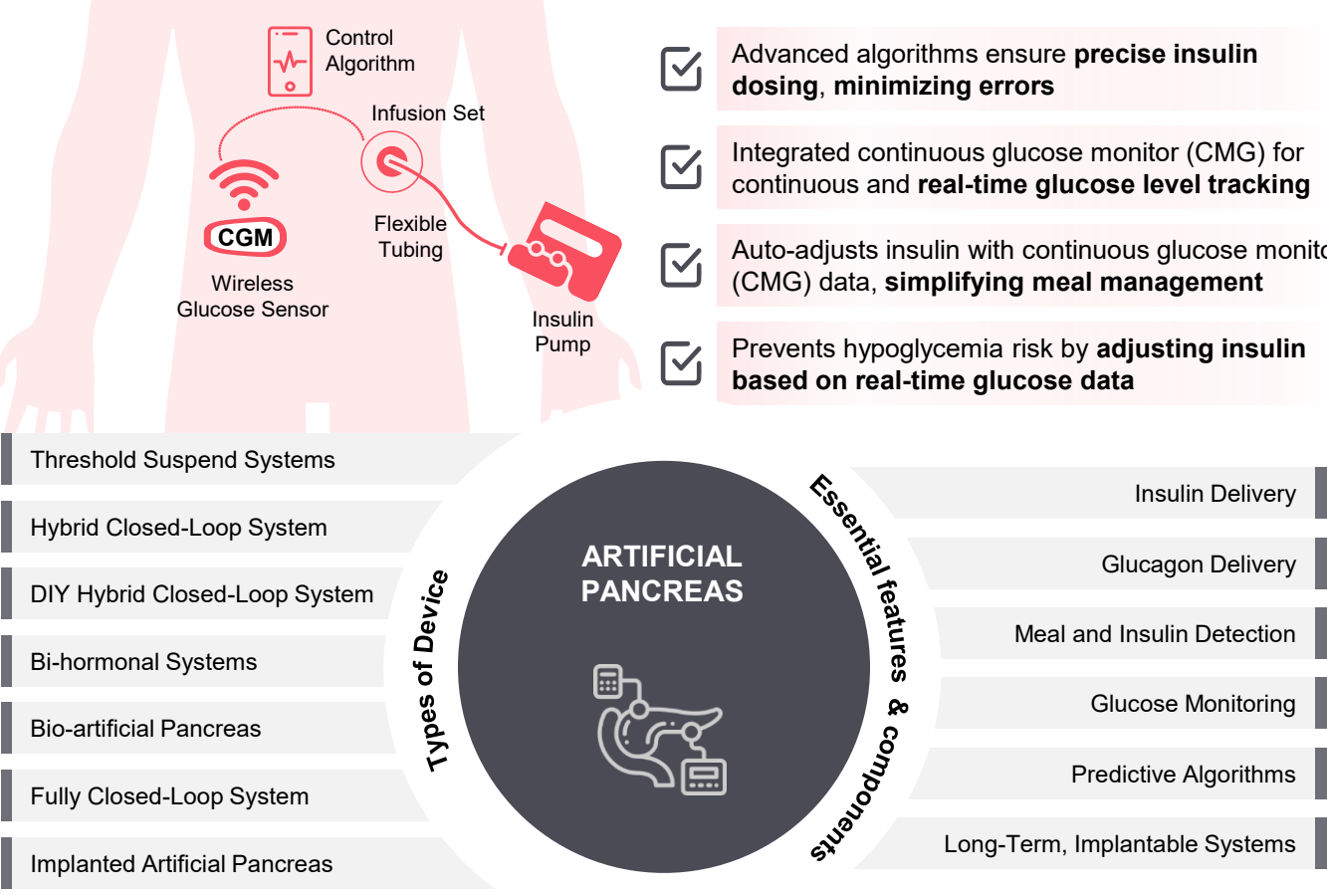
BREAKING BARRIERS
IN DIABETES

Artificial Pancreas in Action

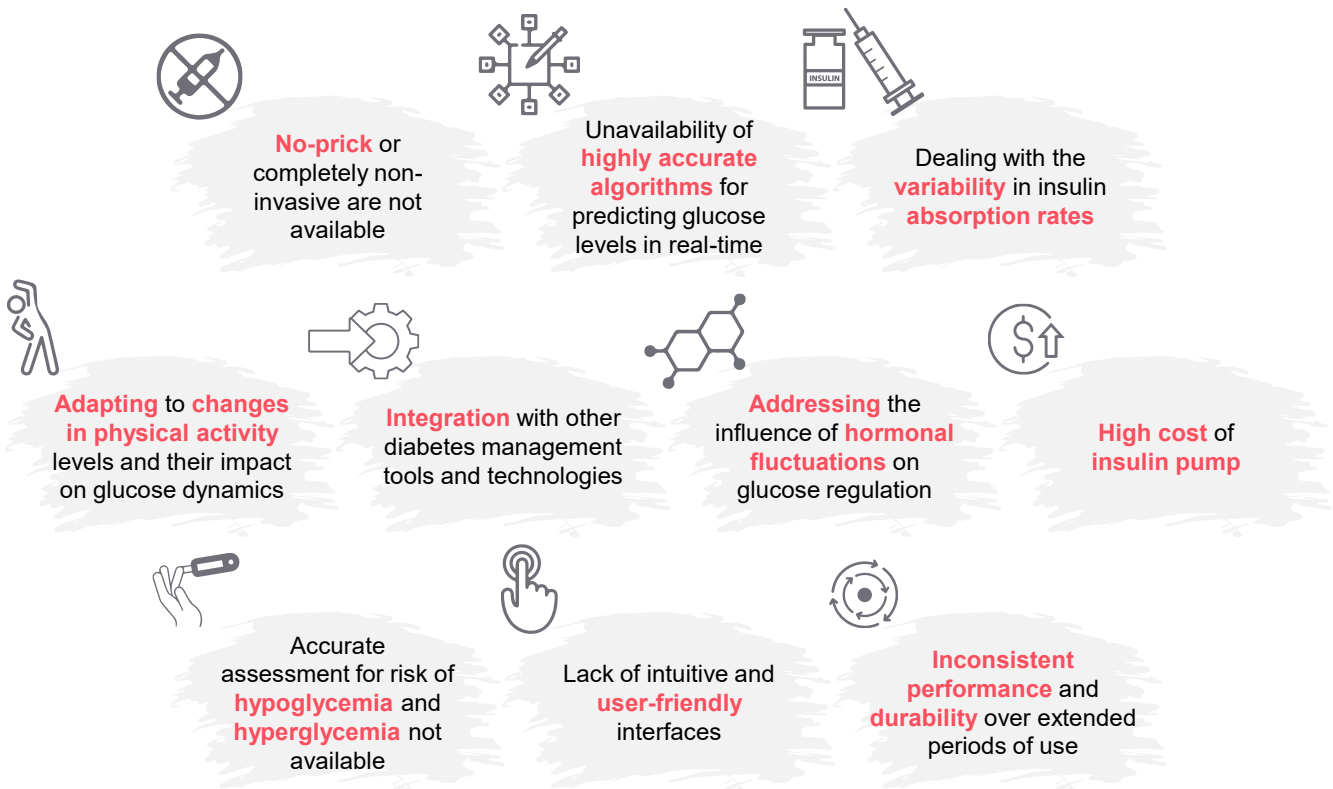
Epidemiology and Prevalence of Diabetes



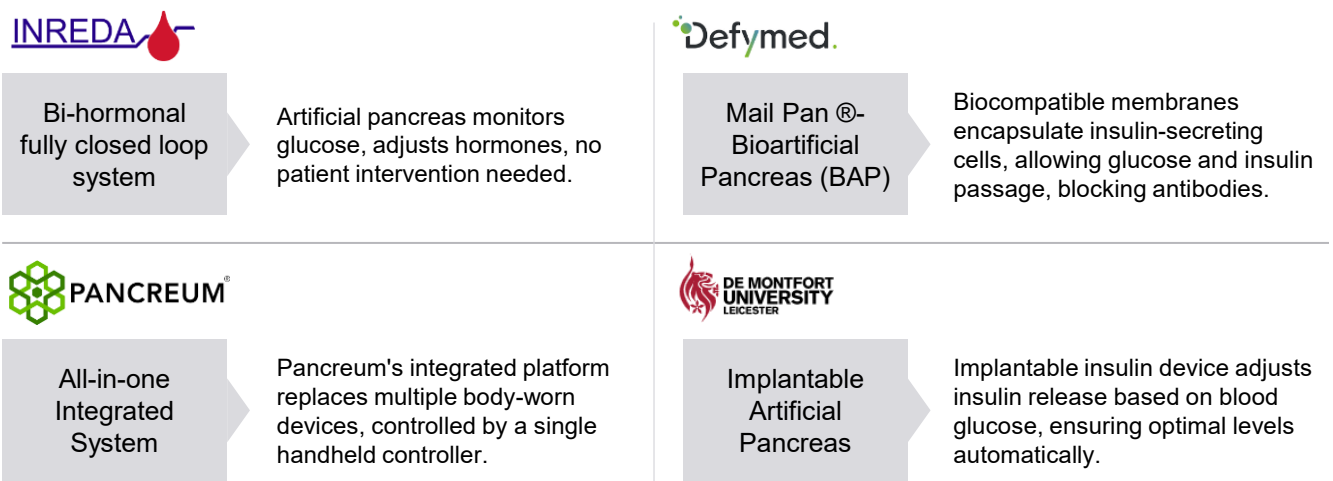
Artificial Pancreas Systems: Why Consider Them?



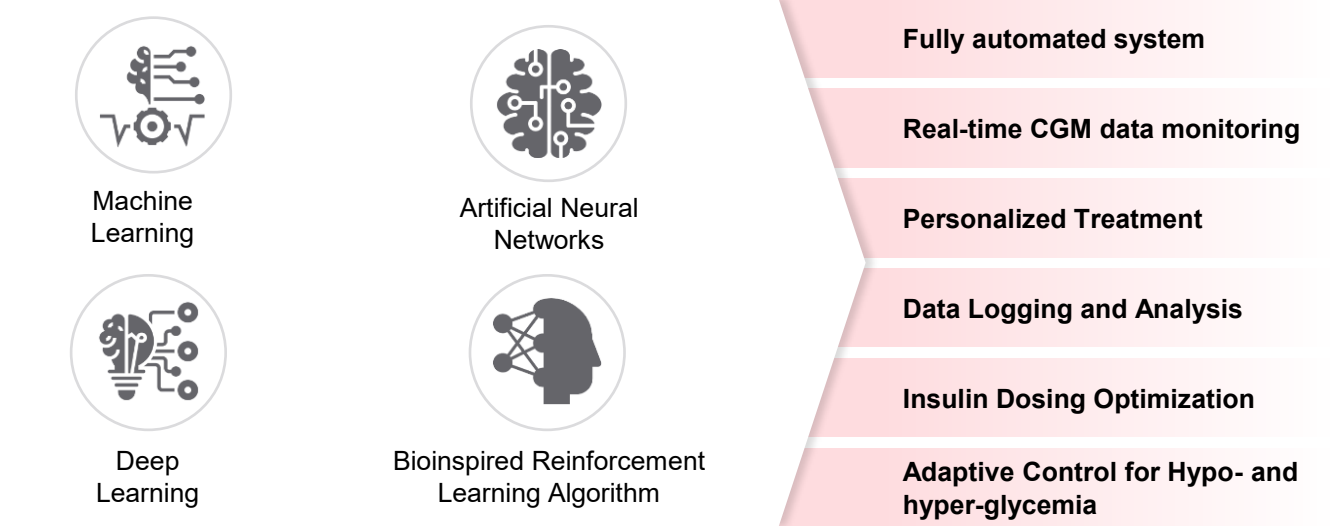
Limitations of Current Artificial Pancreas Systems



Innovative Technologies in Artificial Pancreas System



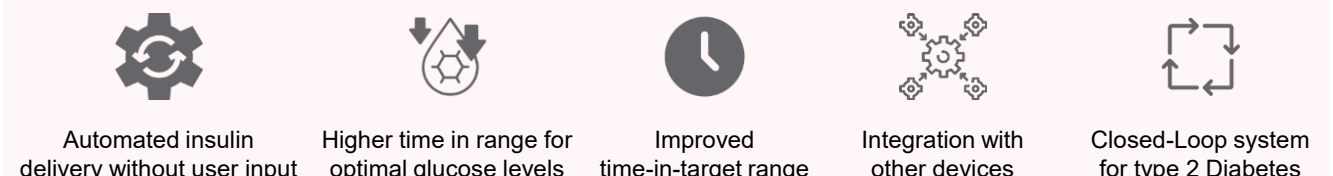
The Role of Big Data and AI in Advancing Artificial Pancreas Systems



Conclusion

- AI-Enhanced CGM Sensors:** AI improves CGM sensor accuracy for real-time blood glucose monitoring, optimizing calibration, data processing, noise reduction, and error detection.
- 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.
- Quality of Life Improvement:** Overall, these advancements promise to significantly enhance the 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



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 and partnerships using our platforms, programs, and access to global ecosystems and players.