An affordable insulin pump for people with diabetes







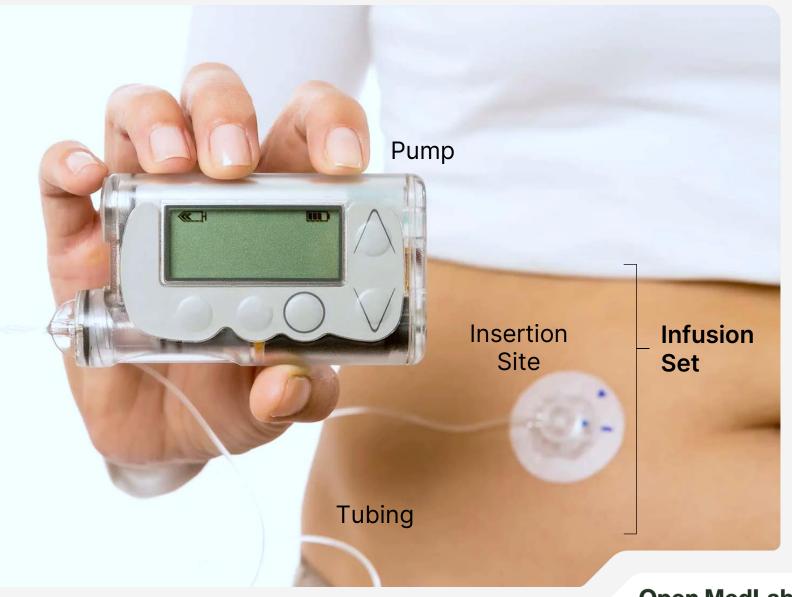
What is the clinical need?

Type 1 diabetes (T1DM), is a chronic condition in which the pancreas produces little or no insulin. People living with T1DM must administer insulin to sustain life.



What is an insulin pump?

An insulin pump is a small wearable medical device that supplies a continuous flow of insulin underneath the skin.



[1] https://gluroo.com/blog/diabetes-101/all-about-insulin-pumps/

Open MedLabs



What are the barriers we face?

Costs of such a device are often found to be a withholding factor to widespread adoption [1], [2]



₹63k

Fixed expenditure ~ \$7,200

Annual recurring expenditure ~ \$760

[1] Doyle, E.A, Weinzimer, S.A. Steffen, A.T., Ahern, J.A.H., Vincent, M. and Tamborlane, W.V., 2004. A randomized, prospective trial comparing the efficacy of continuous subcutaneous insulin infusion with multiple daily injections using insulin glargine. Diabetes care, 27(7), pp.1554-1558.

[2] Karia.D., Nambiar, R.S. and Arora.M., 2019, July. An affordable insulin pump for type-1 diabetic patients: A case study of user-in-the-loop approach to engineering design. In Proceedings of the Design Society: International Conference on Engineering Design (Vol.1, No.1, pp.847-856). Cambridge University Press.

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Our solution

Insuflo:

An affordable insulin pump for people with diabetes







Our USP



Delivery accuracy



Open APIs

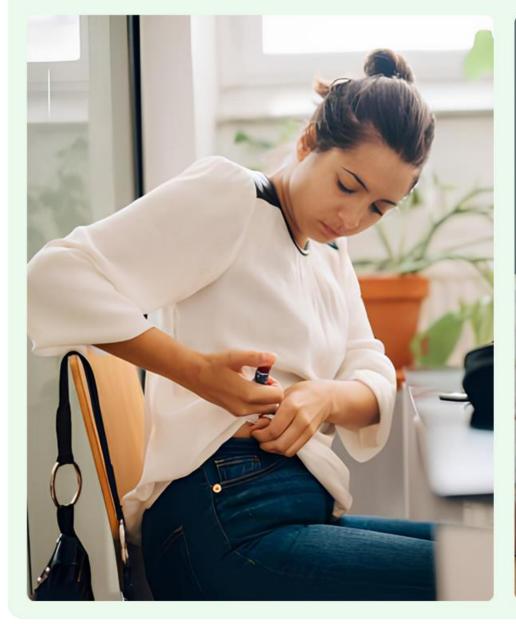


Fraction of the cost

Potentially, the first insulin pump to be designed and commercially launched in India.

Who are our primary users?

People with T1DM and a limited number of people with T2DM who have a significant insulin resistance.







What opportunity does Insuflo tap into?

Primary focus is on T1DM, with subsequent expansion to T2DM.

People with T2DM

~30M TAM(~40% of T2DM) [4]

People with T1DM

~860k TAM

~770k SAM (~7.5% of TAM)

~150k SOM (~20% of SAM)

Potential obtainable valuation of market [2]

T1DM + T2DM

> ₹3,300 Cr

Current valuation [2]

₹80 Cr

Tapped size

T1DM

<0.5%

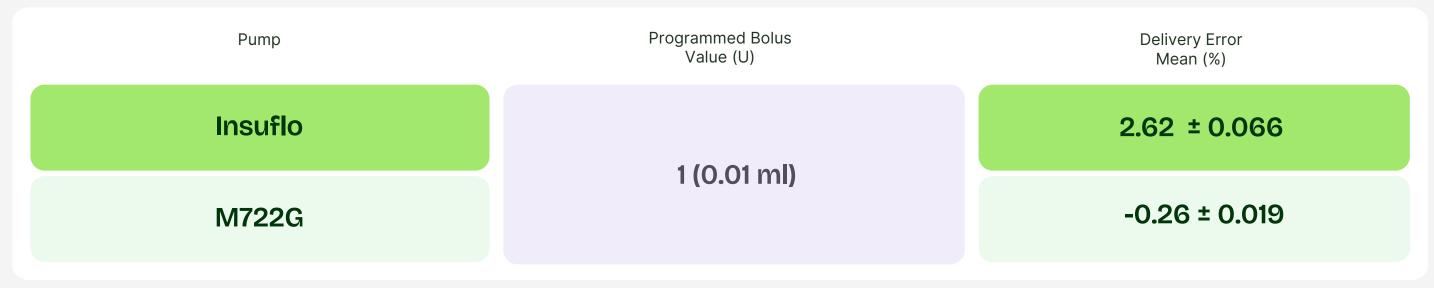
T2DM

Untapped



In-vitro testing results

In-vitro studies have established the delivery accuracy of our prototype device [1]



[1] Kumar, S.S., Karia, D., Gopkumar, A., Koty, P.G. and Arora, M., 2022. Novel Methods to Understand the Temporal Nature and Accuracy of Delivery for Insulin Infusion Pumps, Journal of Diabetes Science and Technology, p.19322968221115749.

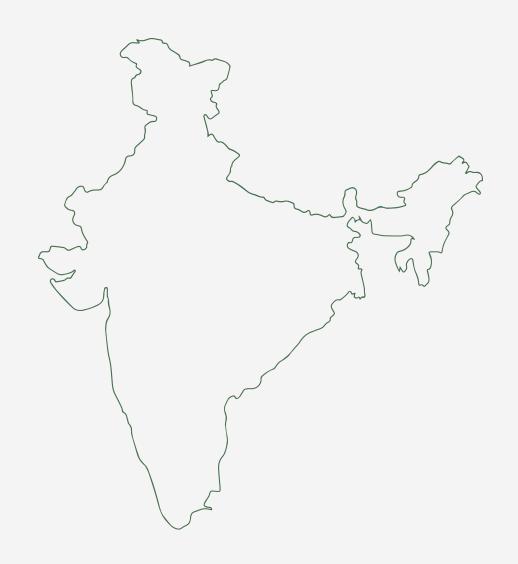




Who are we competing against?

Medtronic Minimed Inc. is currently the only major player in the Indian market

>5x the cost of Insuflo



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Who are we competing against?

The western markets, in contrast, have more than 7 major players

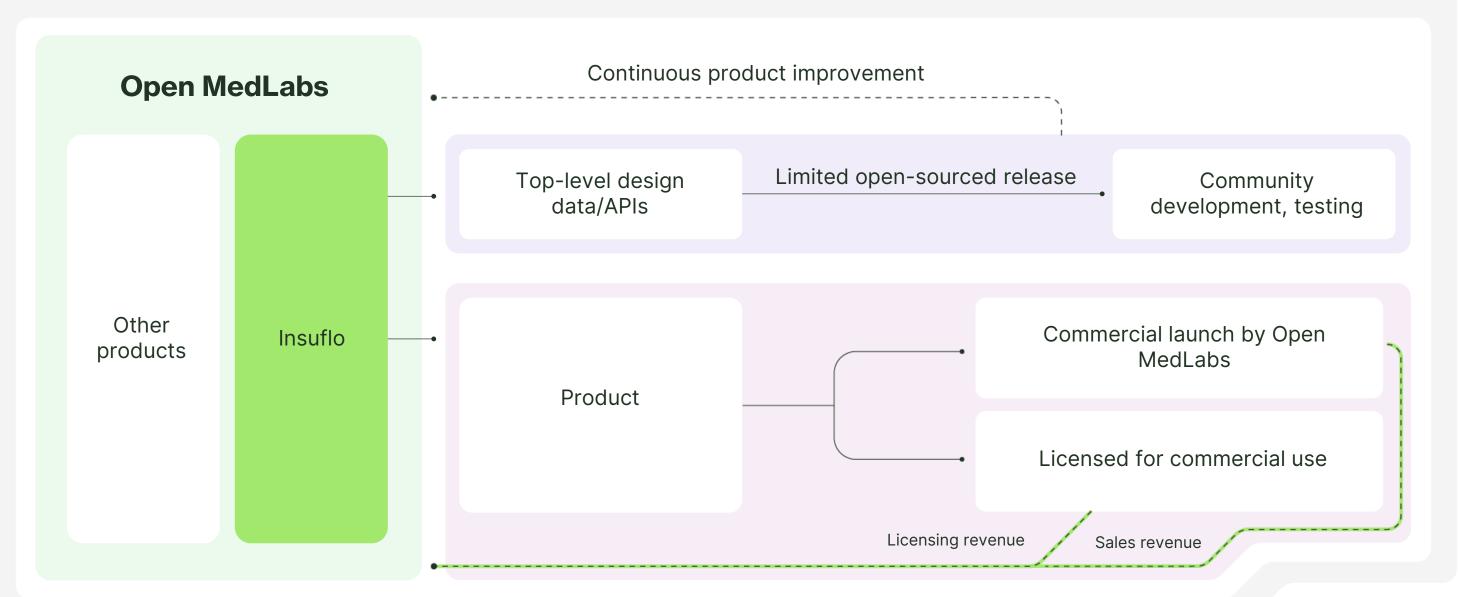
US\$4 billion

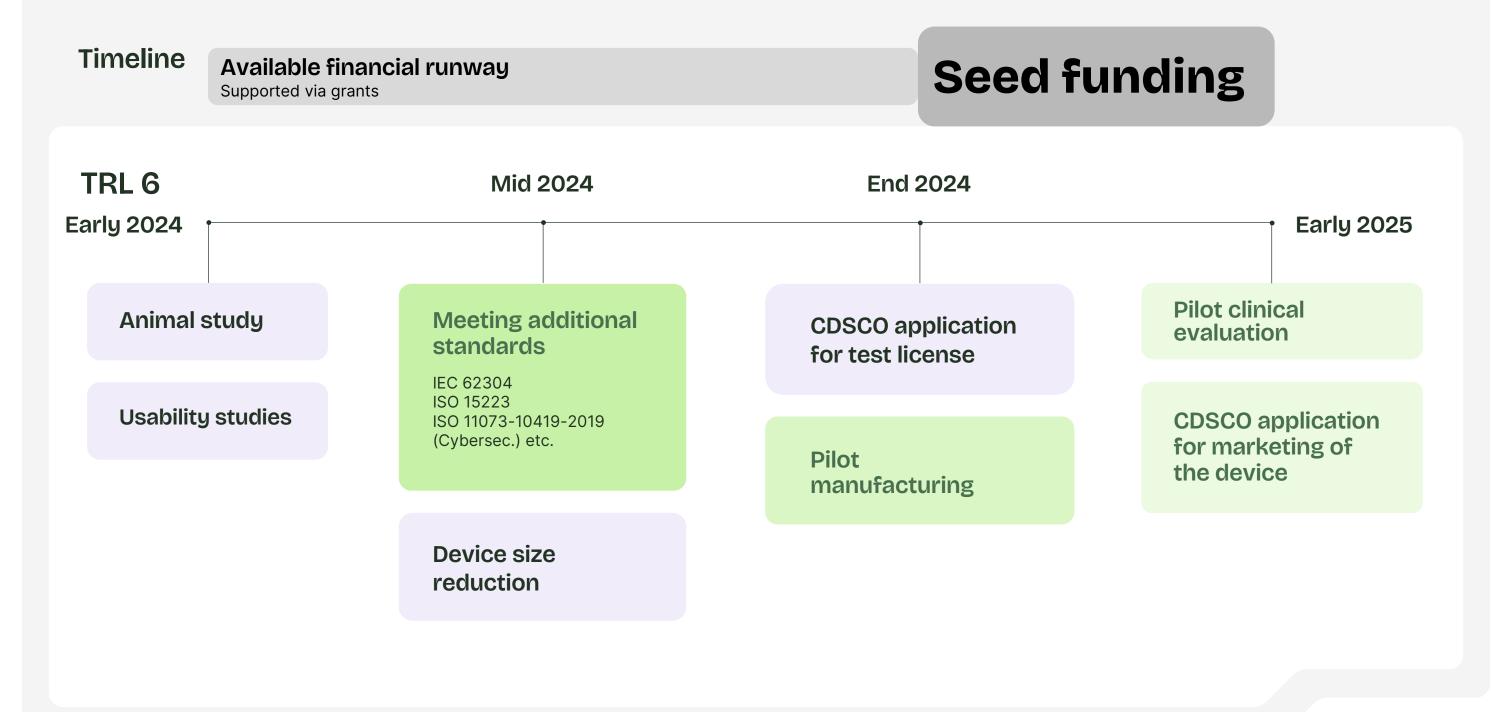
Value of these markets by the end of 2022 [1]



[1] https://www.researchandmarkets.com/reports/4337474/north-american-insulin-pump-market-prospect

Business model





Our team

Advisory board



Deval KariaCo-founder and CEO







M.Des. (Gold medalist), IISc Design, Prototyping, Technology development JDDA, LDAI National winner



Dr. Manish AroraCo-founder







Technology development, Business model development 15+ years of industry/academia experience

PhD (U. of Twente)



Neha Bhatia
Co-founder



Swiss Re



MBA (IIMA)

Design, Prototyping,
Technology development
9+ years of industry
experience



Dr. V. Mohan







Jazz Sethi

Founder and Director, Diabesties Foundation



"We've had so many instances where people with diabetes can benefit significantly from using an insulin pump, but how can they get one when they earn ₹25,000 (~\$300) per month?"



Our supporters















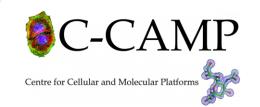














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Jazz Sethi, The Diabesties Foundation

Dr. S.Srikanta, Samatvam Endocrinology Diabetes Centre

IMPRINT team

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Come change the landscape of diabetes in India!

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