

Diabetes Landscape Mapping Innovations List



[1] Wearable insulin delivery

Innovation: Medical Device

Description: A small lightweight pump, without tubes. It is waterproof and gives the user three days of non-stop insulin.

Year: N/A

Link: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8329021/>

Innovation readiness: Commercially available

Source: Survey

[2] Smart insulin patches

Innovation: Medical Device

Description: Smart insulin patches could potentially remove the need for painful insulin injections for people. It employs painless, microneedles to sense the low oxygen environment created when glucose levels rise. This technology is not yet ready for human trials.

Year: N/A

Link: <https://www.diabetes.co.uk/insulin/smart-insulin.html>

Innovation readiness: Commercially available

Source: Survey

[3] Blood glucose testing at home (HbA1c)

Innovation: Medical Device

Description: Aims to develop and test HbA1c home blood testing kits for use at home and in a community setting.

Year: N/A

Link: <https://innovator.scot/news/69>

Innovation readiness: Developing innovation

Source: DHI Landscape Review

[4] My Diabetes My Way

Innovation: App/ Website/ Game

Description: Scotland's interactive diabetes website to help support people who have diabetes and their family and friends.

Year: 2018

Link: <https://mydiabetesmyway.scot.nhs.uk>

Innovation readiness: Offered as BAU - Innovation aligned to new developments including AI

Source: Survey

[5] Use of Fitbit activity trackers to support active lifestyles in adults with Type 2 diabetes

Innovation: Algorithm / Data

Description: Study looking at how we can track lifestyle data in adults with type 2 diabetes as a tool for self management.

Year: 2021

Link: <https://pubmed.ncbi.nlm.nih.gov/34770110/>

Innovation readiness: Developing innovation

Source: Survey

[6] The use of online communities in the self management of type 1 diabetes: an ethnographic analysis

Innovation: Service Model

Description: Deep dive study into how the existing online diabetes community influences self management.

Year: 2020

Link: <https://strathprints.strath.ac.uk/72608/>

Innovation readiness: Early innovation

Source: Survey

[7] Decision support tool for prevention and early intervention

Innovation: Algorithm / Data / App

Description: An app aimed at people at risk of type 2 diabetes. The app will develop a plan with users to help manage their diabetes and alert primary care electronic systems of people at risk.

Year: 2022

Link: <https://rightdecisions.scot.nhs.uk/>

Innovation readiness: Developing innovation

Source: DHI Landscape Review

[8] Inpatient diabetes care - SBRI

Innovation: Algorithm / Data

Description: SBRI Challenge Aiming to improve the clinical care of patients with a pre-existing diagnosis of diabetes when admitted to hospital by developing a real time decision-support tool that supports triage, prevents mechanism errors, identifies emergencies and streamlines the diabetes care pathway.

Year: 2021

Link: <https://hises.edinburghbioquarter.com/diabetes-national-sbri-inpatients-diabetes/>

Innovation readiness: Developing innovation

Source: DHI Landscape Review

[9] Risk prediction algorithms to improve foot care and ulceration prevention - SBRI

Innovation: Algorithm / Data

Description: SBRI Challenge aiming to utilise AI and machine learning to help develop prediction algorithms and risk stratification for diabetes foot ulceration, amputation and mortality.

Year: 2021

Link: <https://hises.edinburghbioquarter.com/diabetes-national-sbri-inpatients-diabetes/>

Innovation readiness: Developing innovation

Source: DHI Landscape Review

[10] Exploring development of a digital service focusing on prevention of Type 2 diabetes

Innovation: Algorithm / Data

Description: Aim to explore accelerated digital remote platforms to support weight management, active lifestyles and cardiovascular disease prevention.

Year: TBC

Link: <https://www.nhsfscd.co.uk/our-work/innovation/>

Innovation readiness: Developing innovation

Source: DHI Landscape Review

[11] UKRI Accelerator Collaborative: MyDiabetesIQ

Innovation: Algorithm / Data

Description: Aim to explore accelerated digital remote platforms to support weight management, active lifestyles and cardiovascular disease prevention.

Year: 2018

Link: <https://gtr.ukri.org/projects?ref=104189>

Innovation readiness: Developing innovation

Source: DHI Landscape Review

[12] Understanding the role of technology for physical activity in adolescents living with type 1 diabetes

Innovation: Service model

Description: Study aiming to codesign interventions and services for type 1 diabetics to enable them to manage the risk of taking part in physical activities.

Year: 2022

Link: <https://pureportal.strath.ac.uk/en/publications/a-qualitative-study-for-co-designing-the-future-of-technology-to->

Innovation readiness: Early innovation

Source: DHI Landscape Review

[13] Monster Manor

Innovation: App / Website / Game

Description: Monster Manor is a combination game and logging app for children with type 1 diabetes. The premise is simple – children enter their blood glucose (and other) stats, and are rewarded with piñatas.

Year: 2015

Link: <https://ayogo.com/blog/monster-manor-uk-beta>

Innovation readiness: Product/Service available

Source: Survey

[14] mySugr Junior

Innovation: App / Website / Game

Description: The app features “diabetes monster” that children tame by following good diabetes management practices, connecting both children and their parents.

Year: 2012

Link: <https://www.mysugr.com/en/diabetes-app/>

Innovation readiness: Product/Service available

Source: Survey

[15] Carb Counting with Lenny

Innovation: App / Website / Game

Description: This series of games, put together by Medtronis and hosted by Lenny, the lion with type 1 diabetes, is focused on teaching children to accurately count the carbs that they are consuming.

Year: 2014

Link: <https://www.diabetesincontrol.com/carb-counting-with->

Innovation readiness: Product/Service available

Source: Survey

[16] Companion Card

Innovation: App / Website / Game

Description: Toolkit invites people WITH type 1 diabetes, their healthcare team and I to break down barriers and connect – in a way that is clear, medically accurate and fun.

Year: 2021

Link: <https://www.diabetesbydesign.org/companioncards>

Innovation readiness: Product/Service available

Source: Survey



[17] Neap - Mental health / Mindfulness App

Innovation: App / Website / Game

Description: Neap is a mindful app to calm the waves of diabetes management. Accredited by mindfulness experts, Neap can help you enhance your daily diabetes routine.

Year: N/A

Link: <https://dribbble.com/shots/16812887-Neap-mental-health-mobile-app-for-diabetics>

Innovation readiness: Product/Service available

Source: Survey



[18] Pump School

Innovation: App / Website / Game

Description: Online resource to educate patients how to use positive-displacement (PD) pumps.

Year: N/A

Link: <http://www.pumpschool.com>

Innovation readiness: Product/Service available

Source: Interview



[19] DigiBete

Innovation: App / Website / Game

Description: DigiBete is a website to help young people, families and communities to manage Type 1 Diabetes. DigiBete is a video platform and app, and is a one-stop-shop for young people's diabetes management.

Year: N/A

Link: <https://www.digibete.org>

Innovation readiness: Product/Service available

Source: Interview / Landscape Review



[20] Ready Steady Go

Innovation: Service model

Description: A programme designed to assist with transitioning children from childrens service to adult services.

Year: 2022

Link: <https://www.readysteadygo.net/home.html>

Innovation readiness: Product/Service available

Source: Interview



[21] MedComic Diabetes

Innovation: App / Website / Game

Description: A series of educational medical cartoons designed to make learning about diabetes fun for children.

Year: N/A

Link: <https://www.medcomic.com>

Innovation readiness: Product/Service available

Source: Interview



[22] Beat

Innovation: App / Website / Game

Description: Charity offering wellbeing support to people with eating disorders.

Year: N/A

Link: <https://www.beateatingdisorders.org.uk>

Innovation readiness: Product/Service available

Source: Interview



[23] SilverCloud Health

Innovation: App / Website / Game

Description: SilverCloud is an online cognitive behavioural therapy (CBT) programme which allows you to complete therapy in your own time and at your own pace. Free to patients in Scotland, supported by the NHS and Scottish Government.

Year: N/A

Link: <https://www.silvercloudhealth.com/uk>

Innovation readiness: Product/Service available

Source: Interview



[24] Counter Weight digital programme

Innovation: Service model / App

Description: SilverCloud is an online cognitive behavioural therapy (CBT) programme which allows you to complete therapy in your own time and at your own pace. Free to patients in Scotland, supported by the NHS and Scottish Government.

Year: 2019 as per funding

Link: <https://www.counterweight.org/pages/nhs>

Innovation readiness: Product/Service available

Source: Interview



[25] Healthy helping

Innovation: Service model

Description: Healthy Helping is an NHS Grampian weight management programme providing face-to-face support.

Year: N/A

Link: <https://www.nhsgrampian.org/your-health/healthy-living/healthy-helpings-for-families/>

Innovation readiness: Product/Service available

Source: Interview



[26] Second Nature

Innovation: App

Description: NHS supported weight management programme including health coaching. Licence required.

Year: N/A

Link: <https://www.secondnature.io/how-it-works>

Innovation readiness: Product/Service available

Source: Interview



[27] OVIVA (NHS)

Innovation: App

Description: Online NHS provided twelve week programme to support people to better manage type 2 diabetes, improve blood glucose levels, lose weight and build new habits leading to healthier and happier lifestyles. Licence required.

Year: N/A

Link: <https://oviva.com/uk/en/programme/healthier-you->

Innovation readiness: Product/Service available

Source: Interview



[28] Scotland's NEAR ME service

Innovation: Service model / Platform

Description: Near Me is a video consulting service that enables people to attend appointments from home or wherever is convenient. The service is already widely used across NHS Scotland for health and care appointments with around 20,000 consultation being held every week.

Year: 2019

Link: <https://www.nearme.scot>

Innovation readiness: Product/Service available

Source: Interview



[29] Increasing access to continuous glucose monitoring and closed loop technologies for diabetes

Innovation: Service model

Description: Aims to develop a national approach to the onboarding, training and support models available for patients to increase usage of continuous glucose monitoring devices. Funding is available but there continues to be significant variation in usage across populations in Scotland.

Year: 2023

Link: <https://www.nhsfscd.co.uk/our-work/innovation/accelerated-national-innovation-adoption-ania-pathway/diabetes-closed-loop/>

Innovation readiness: Product/Service available

Source: DHI Landscape Review



[30] Exploring digital service models for delivery of type 2 diabetes remission interventions

Innovation: App / Website / Game

Description: Exploring digital service model for Delivery of T2 Diabetes Remission Interventions. Target to offer this to 3000 people annually from 50 currently nationally across Scotland

Year: 2023

Link: <https://www.nhsfscd.co.uk/our-work/innovation/>

Innovation readiness: Product/Service available

Source: DHI Landscape Review



[31] Developing a technology platform to handle multiple types of medical data from commercial devices and share with existing NHS clinical systems

Innovation: Algorithm / Data

Description: Developing and testing a technology Platform to handle multiple types of medical data from devices and share with existing NHS Clinical Systems. A diabetes use case has been underway, working with commercial providers and exploring data exchange from blood glucose meters and pumps.

Year: 2018

Link: <https://www.medicaldevicesunit.org/>

Innovation readiness: Developing innovation

Source: DHI Landscape Review



[32] iDiabetes

Innovation: Algorithm / Data

Description: The 'intelligent Diabetes' (iDiabetes) project is exploring the use of precision medicine to support early identification of diabetes risk factors, personalised treatment and care.

Year: 2023

Link: <https://www.cso.scot.nhs.uk/wp-content/uploads/test.pdf>

Innovation readiness: Early innovation

Source: DHI Landscape Review