

# 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:** A digital weight loss programme combining meal replacement with behavioural change and dietitian support building on the evidence outcomes of The Direct Clinical Trial. Licence required.

**Year:** 2019 as per funding

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

**Innovation readiness:** Available in regions of Scotland who fund it.

**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