**Healthcare Inequalities Targeted Call 2023**

Please complete all questions on the application form online at [**nia.smapply.org**](file:///C:\Users\Michal.Dytch\Downloads\nia.smapply.org). The application form is divided into nine sections to capture information about:

Section 1: Basic information

Section 2: Market research

Section 3: Current care pathway

Section 4: Testing with users

Section 5: Regulations, standards and certifications

Section 6: Intellectual property

Section 7: Revenue model

Section 8: Cost and savings

Section 9: Deployment

Each question has a maximum word limit that you will not be able to exceed when entering your response into the system. Your application should demonstrate criteria in all sections of the application.

**ELIGIBILITY (Screening Questions)**

1. Does your innovation address scoring and stratification bias in, for example in the diagnosis, management or assessment (please select all that apply):

* + Maternity care
  + Epilepsy in young children
  + Sickle Cell
  + Elective Care

1. Does your innovation impact a particular disease or condition?

* Yes (please specify)
* No

1. Select all the categories that can be used to describe your innovation

* Medical device
* In vitro diagnostic
* Digital (including apps, platforms, software)
* Artificial intelligence (AI)
* Education or training of workforce
* Personal protective equipment (PPE)
* Models of care and clinical pathways
* Estates and facilities
* Data and monitoring
* Reduces carbon emissions and supports the NHS to achieve net zero
* Healthcare inequalities improvement
* Other: [free text input]

1. Select a primary category to describe your innovation

* Medical device
* In vitro diagnostic
* Digital (including apps, platforms, software)
* Artificial intelligence (AI)
* Education or training of workforce
* Personal protective equipment (PPE)
* Models of care and clinical pathways
* Estates and facilities
* Data and monitoring
* Other: [free text input]

1. Is your innovation relevant to any of the following areas? (select all that apply)

* COVID-19
* Data, analytics and research
* Digitalising the system
* Improving system flow
* Independence and prevention
* Operational excellence
* Patient activation and self-care
* Patient safety and quality improvement
* Workforce resource optimisation
* Net zero NHS or greener innovation

1. In which care settings is your innovation relevant? (select all that apply)

* Academia
* Acute trust - inpatient
* Acute trust - outpatient
* Ambulance
* Care homes or care setting
* End of life care (EOLC)
* ICS
* Industry
* Local authority - education
* Mental health
* Pharmacies
* Primary care
* Social care
* Third sector organisations
* Urgent and emergency
* Other

1. What is the main purpose of your innovation? (select all that apply)

* Preventing a condition or symptom from happening or worsening
* Predicting the occurrence of a condition or symptom
* Diagnosing a condition
* Monitoring a condition, treatment or therapy
* Providing treatment or therapy
* Managing a condition
* Enabling care, services or communication
* Supporting the NHS to mitigate the risks or effects of climate change and severe weather conditions
* Reducing bias in healthcare processes

1. Do you have any evidence to show the impact or benefits of your innovation?

Yes

Not yet

9. Is your innovation ready for wider adoption across the health and care system?

* Yes
* No

10. Has your innovation been deployed in a NHS or care setting?

* Yes
* No

**Section 1: BASIC INFORMATION**

1. Are you currently receiving any support for your innovation? 150 word limit

This can include any UK funding to support the development of your innovation.

1. Are you involved with any Accelerated Access Collaborative programmes? Select all that apply.

* No
* Academic Health Science Network
* Artificial Intelligence in Health and Care Award
* Clinical Entrepreneur Programme
* Early Access to Medicines Scheme
* Innovation for Healthcare Inequalities Programme
* Innovation and Technology Payment Programme
* NHS Innovation Accelerator
* NHS Insights Prioritisation Programme
* Pathway Transformation Fund
* Rapid Uptake Products Programme
* Small Business Research Initiative for Healthcare
* Test beds

1. What problem is your innovation trying to solve? 500 word limit

Include the current consequences of the problem.

For example, the process of checking a patient’s pulse to determine if there is atrial fibrillation using a finger and a watch is inherently inaccurate. Using this method approximately 25% of patients are not referred to secondary care who should be (false negative) and 15% of patients who are referred are referred unnecessarily (false positive). For those patients who are not picked up at this stage, their underlying disease will progress before being correctly diagnosed.

1. Give an overview of how your innovation works. 300 words limit

If this is or might be a medical device, include the intended purpose statement (opens in new window).

For example, GPs will identify patients with suspected atrial fibrillation from their history and reported symptoms. This innovation is a portable device that patients wear over a 7-day period. The device will monitor the patient’s heart rate continuously whilst they are wearing it. GPs will need to be trained in using the device and interpreting the results. GP practices will need to store the device and consumables.

1. What are the benefits or impact of your innovation for patients and people? Select all that apply.

* Reduces mortality
* Reduces need for further treatment
* Reduces adverse events
* Enables earlier or more accurate diagnosis
* Reduces risks, side effects or complications
* Prevents a condition occurring or exacerbating
* Avoids a test, procedure or unnecessary treatment
* Enables a test, procedure or treatment to be done non-invasively
* Increases self-management
* Increases quality of life
* Enables shared care
* Alleviates pain
* Reduces inequalities
* Other benefits for patients and people
* Not applicable

1. What are the benefits or impact of your innovation for NHS and social care? Select all that apply.

* Reduces the length of stay or enables earlier discharge
* Reduces need for adult or paediatric critical care
* Reduces emergency admissions
* Changes delivery of care from secondary care (for example hospitals) to primary care (for example GP or community services)
* Change in delivery of care from inpatient to day case
* Increases compliance
* Improves patient management or coordination of care or services
* Reduces referrals
* Takes less time
* Uses no staff or a lower grade of staff
* Leads to fewer appointments
* Is cost saving
* Increases efficiency
* Improves performance
* Reduces carbon emissions and supports the NHS to achieve net zero
* Other environmental benefits
* Other benefits for the NHS and social care

1. Have you estimated the carbon reduction or savings that your innovation will bring?

* Yes
* Not yet, but I have an idea

All NHS suppliers will be expected to provide the carbon footprint associated with the use of their innovation, as outlined in the Delivering a Net Zero NHS report (opens in new window).

If this is something you are unsure of, the NHS Innovation Service can support you with this.

*7.1 (If yes) Provide the estimates and how this was calculated (75 words)*

*7.2 (If no) Explain how you plan to calculate this (75 words)*

1. Do you have or are you working on a carbon reduction plan (CRP)?

* Yes, I have one
* I am working on one
* No, I do not have one

All NHS suppliers will require a carbon reduction plan (CRP), as outlined in the NHS Suppliers Roadmap plan (opens in new window).

1. Have you completed a health inequalities impact assessment?

* Yes
* No

By this, we mean a document or template which asks you about the impact of your innovation on health inequalities.

One example is the Equality Impact Assessment Standard produced by the NHS Race and Health Observatory (opens in new window).

*9.1 (If yes) Upload the health inequalities impact assessment, or any relevant documents*

10. Do you have any evidence to show the impact or benefits of your innovation?

* Yes
* Not yet

*10.1 (if yes) What type of evidence or research do you want to submit?*

* Evidence of clinical or care outcomes
* Evidence of cost impact, efficiency gains and/or economic modelling
* Other evidence of effectiveness (for example environmental or social)
* Pre-clinical evidence
* Real world evidence

Evidence can include clinical and economic evidence, as well as service evaluation, environmental and social impact or other proven benefits such as staff and system benefits. You will be able to add several pieces of evidence one at a time. We will ask about user testing and regulatory approval in later sections.

*10.2 What type of evidence do you have?*

* Data published, but not in a peer reviewed journal
* Non-randomised comparative data published in a peer reviewed journal
* Non-randomised non-comparative data published in a peer reviewed journal
* Poster or abstract presented at a conference
* Randomised controlled trial published in a peer reviewed journal
* Unpublished data
* Other (please specify)

*10.3 Write a short summary of the evidence. 200 word limit*

Give a brief overview that covers the scope of the study and its key findings.

*10.4 Upload any documents that support this evidence*

11. Are you currently collecting evidence, or have plans to collect evidence?

* Yes
* No

*11.1 (If yes) Write a short summary of your ongoing or planned evidence gathering. 200 word limit*

*11.2 Upload any documents relevant to this evidence collection*

**SECTION 2: Market research**

12. Have you conducted market research to determine the demand and need for your innovation in the UK?

* Yes
* I am currently doing market research
* Not yet

By this, we mean any research you have done to determine the market opportunity for your innovation. You will be able to explain any testing you have done with users later in the record.

*12. 1 Describe the market research you have done, or are doing, within the UK market. 200 word limit*

There are different methodologies available and could include a mix of the following:

\* in-depth interviews

\* focus groups

\* telephone interviews

\* patient record forms

\* computer-assisted telephone interviews

\* online surveys

\* market research online communities

\* ethnography

13. Which option best describes your innovation?

* A one-off innovation, or the first of its kind
* A better alternative to those that already exist
* An equivalent alternative to those that already exist
* A more cost-effect alternative to those that already exist
* I am not sure

14. What competitors or alternatives exist, or how is the problem addressed in current practice? 250 word limit

Include how your innovation is different to the alternatives in the market.

**SECTION 3: Current care pathway**

15. Does your innovation relate to a current NHS care pathway?

* There is a pathway, and my innovation changes it
* If your innovation does not play a role in the delivery of care, select ‘does not form part of a care pathway’.
* There is a pathway, and my innovation fits in to it
* There is no current care pathway
* I do not know
* Does not form part of a care pathway

An NHS care pathway outlines the entire patient journey and the actions taken in different parts of the healthcare system. It’s key to understand the existing routines of clinical and care professionals, administrators and others who will be impacted by your innovation.

16. Describe the potential care pathway with your innovation in use. 200 word limit

Focus on any areas that will be impacted by introducing your innovation to the care pathway.

**SECTION 4: Testing with users**

17. Have you involved users in the design process?

* Yes
* I am in the process of involving users in the design
* Not yet

This includes involving patients or the public, carers, clinicians or administrators in the design process, including people with different accessibility needs.

18. Have you tested your innovation with its intended users in a real life setting?

* Yes
* I am in the process of testing with users
* Not yet

Do not include any testing you have done with users in a controlled setting.

19. Which groups of intended users have you engaged with?

* Clinical or social care professionals working in the UK health and social care system
* Clinical or social care professionals working outside the UK
* Non-clinical healthcare staff
* Patients
* Service users
* Carers
* Other: [free text entry]

20. What kind of testing with users have you done? 200 word limit

This can include any testing you have done with people who would use your innovation, for example patients, nurses or administrative staff.

Describe the testing and feedback for [testing type].

Provide a brief summary of the method and key findings. You can upload any documents that showcase your user testing next.

21. Upload any documents that showcase your user testing

**SECTION 5: Regulations, standards, certifications**

22. Do you know which regulations, standards and certifications apply to your innovation?

* Yes, I know all of them
* Yes, I know some of them
* No
* Not relevant

23. Which regulations, standards and certifications apply to your innovation?

* UKCA / CE

◻︎ Non-medical device

◻︎ Class I medical device

◻︎ Class IIa medical device

◻︎ Class IIb medical device

◻︎ Class III medical device

* In-vitro diagnostics

◻︎ IVD general

◻︎ IVD self-test

◻︎ IVD Annex II List A

◻︎ IVD Annex II List B

* Marketing authorisation for medicines
* Care Quality Commission (CQC) registration, as I am providing a regulated activity
* Digital Technology Assessment Criteria (DTAC)
* Other: [free text input]

24. Do you have a certification for UKCA / CE or In-vitro diagnostics (linked to answer for Q23)?

* Yes
* I am actively working towards it
* Not yet

25. Upload all certification documents

**SECTION 6: Intellectual property**

26. Do you have any patents for your innovation?

* I have one or more patents [26.1 please supply patent number(s)]
* I have applied for one or more patents
* I do not have any patents, but believe I have freedom to operate

27. Do you have any other intellectual property for your innovation?

* Yes: [27.1 If yes, please specify]
* No

**SECTION 7: Revenue model**

28. What is the revenue model for your innovation?

* Advertising
* Direct product sales
* Fee for service
* Lease
* Sales of consumables or accessories
* Subscription
* Other: [free text input]
* I do not know

29. Which NHS or social care organisation and department do you think would pay for the innovation?

100 words

Be as specific as you can.

30. Which NHS or social care organisation and department would benefit from the innovation? 100 words

Be as specific as you can.

31. Have you secured funding for the next stage of development?

* Yes (go to question 31.1)
* No
* Not relevant (go to question 31.2)

*31.1 If yes, describe the funding you have secured for the next stage of development. 100 words*

*For example, venture capital, angel investor, seed funding, grant funding, government funding or similar.*

*31.2 Please explain why you do not need to secure funding (100 words)*

**SECTION 8: Cost and savings**

32. Do you know the cost of your innovation?

* Yes, I have a detailed estimate
* No
* Yes, I have a rough idea

By cost, we mean the cost to the NHS or any care organisation that would implement your innovation.

33. What is the cost of your innovation? 100 words

Include the relevant metric such as a flat capital cost or cost per patient, cost per unit or cost per procedure. Include any costs associated with implementation and resources.

For example, £10 based on 500 units per site. £345 per procedure and a typical patient requires two procedures.

34. Roughly how many patients would be eligible for your innovation in the UK?

* Up to 10,000 per year
* 10,000 to half a million per year
* More than half a million per year
* Not relevant to my innovation

35. What is the eligibility criteria for your innovation? 200 words

For example, users need to be over a certain age, or have a certain medical history or current health status.

Answer 'not relevant' if your innovation does not have any eligibility criteria.

36. How many units of your innovation would you expect to sell in the UK per year? 50 words

37. Approximately how long do you expect each unit of your innovation to be in use? 100 words

By this we mean the shelf life of the product, or the product's lifespan. This can include the lifespan of any components such as batteries.

38. What are the costs associated with the use of your innovation, compared to current practice in the UK?

* My innovation is cheaper to purchase
* My innovation costs more to purchase, but has greater benefits that will lead to overall cost savings
* My innovation costs more to purchase and has greater benefits, but will lead to higher costs overall
* I am not sure

**SECTION 9: Deployment**

39. Where have you deployed your innovation? 150 word limit

Provide the name of the organisation and the department, if possible.

40. What was the commercial basis for deployment? 400 words

For example, did you provide your innovation for free or was it purchased? Or was it part funded by yourself and the NHS area in which it's being deployed?

41. How did the deployment of your innovation affect the organisation(s)? 400 words

For example, which job roles were affected and how was the care pathway redesigned?

42. Does your team have the resources for scaling up to national deployment?

* Yes
* No

This includes having a team with the right combination of skills and knowledge.

43. Upload any relevant implementation planning documents.