## Scotland's Community-acquired Retinal Image Repository

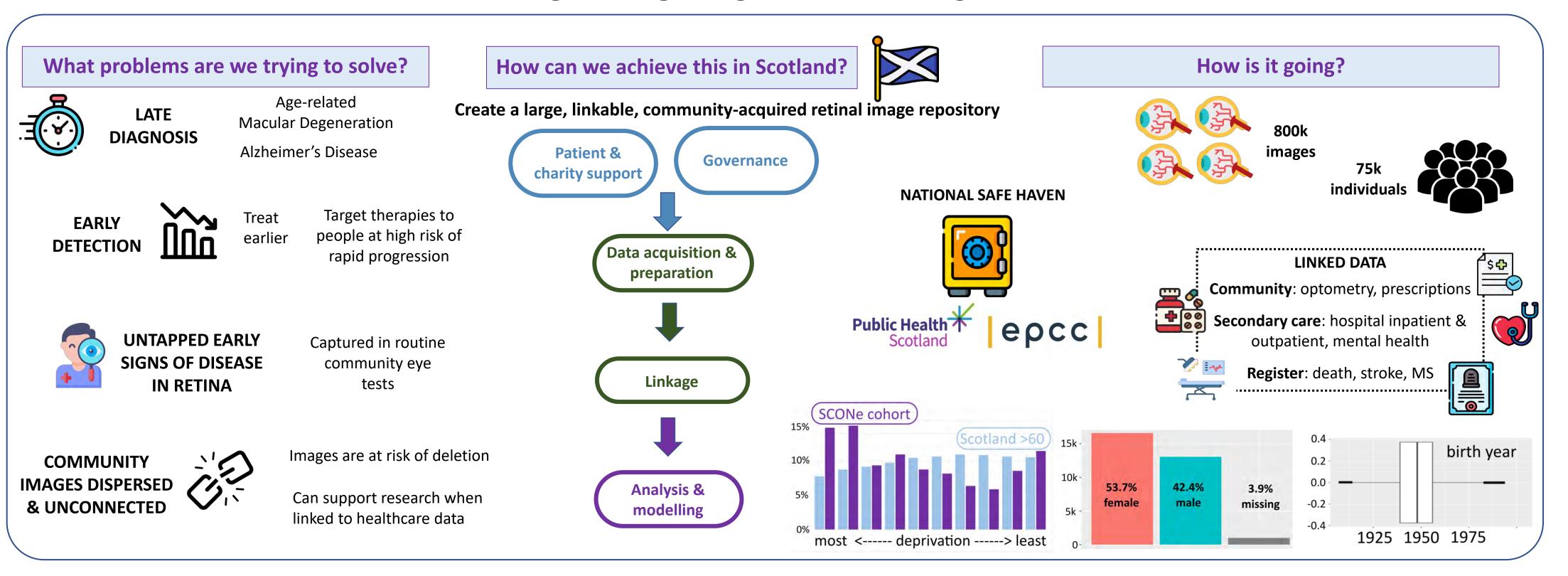
Scottish Collaborative Optometry-Ophthalmology Network e-research

**SCONe** 





#### Safeguarding images & facilitating research



#### **Analysis & modelling**

# 1. Train AI model to predict age directly from fundus image 2. Run Al model on "healthy" people to get normative values Normative Percentiles for Age Gap **Low Healthcare Use Score** 3. Apply AI model to disease groups Distribution of Retinal Age Percentile Score for AMD Group - older than 60 years Distribution of Retinal Age Percentile Score for the Neuro Group 0.025 Neuro Group 0.020 0.020 0.015 0.010 0.005 0.005

### Patient & Public Involvement and Engagement

In June 2024, SCONe launched a PPI group of people with AMD and their carers to co-developed a three-tier PPIE strategy for SCONe. At the involvement tier, contributors act as partners in decision-making through the PPI steering group. Engagement activities make data science more transparent and accessible while strengthening public understanding. 1. Making an animated video on eye tests spotting early health signs. 2. Hosting Data Conversations about retinal images as health data in Aberdeen. 3. Joining science festivals to engage the public. Consultation is key when wide-scale participation isn't possible, especially to inform co-designed research

Together with the public, we're developing research to boost

awareness and use of eye exams.

reveal hidden

inform about health

issues beyond sight

indicator of

overall health

problems







CHARITABLE TRUST







Data

Scotland





Eye exams

are a great

tool





Prevention starts with an eye

test. SCONe supports this

through early diagnosis

research and promoting

public awareness of eye

exams.

