Galatean Risk and Safety Technology
GRiST Canopy of Care

The GRaCE-AGE programme has produced real benefits in all three EIT Health goals: research, business, and training. We have delivered:

The eGRiST cyber-physical decision support system for intelligent interpretation of sensor data and the ability to monitor care needs around the clock.

Artificial intelligence for detecting risks and providing advice.

Multilanguage capability that opens eGRiST up to anywhere in the world and a Dutch translation has been piloted.

Teaching and training of hundreds of students, mental-health practitioners, and people in the community across Europe.

Intelligent risk formulations for helping practitioners link assessments to more effective plans.

Better understanding of ambient sensors and how to interpret their data in the context of a person's health and wellbeing.

Multiple international peer-reviewed papers publicising the GRaCE-AGE work.

New business and charitable organisations to support better mental health and wellbeing.

GRiST spins out into eGRiST Ltd

Universities are good at developing and publishing ideas but find it much harder to move them into products or services that directly benefit society. Enter the EIT Health funding scheme, which explicitly tries to bridge the chasm between laboratory and real-world implementation. The most important Key Performance Indicator (KPI) for GRaCE-AGE was to cross the chasm with a new company and we are very proud to say it has been achieved.

eGRiST Ltd was born on October 23rd, 2018, and is now trading. It is already receiving licence fees for its technology, and training sessions have been set up for two organisations in the next month: we are up and running.

Sales and marketing are now managed by Goldfish, an entrepreneur-first agency that has just the vision we need for client access and engagement. Our compelling motivation for setting up a company was to be more proactive in promoting eGRiST so that we can reach those people and services where it can make such a difference.

Our immediate plans for eGRiST are described in more detailed overleaf.

Beyond GRaCE-AGE

We are grateful to EIT Health for supporting us and are extremely pleased to have realised its goal of "bringing innovative ideas to market". The GRaCE-AGE lead was West Midlands Academic Health Science Network, which includes Aston University and Worcester Health and Care NHS Trust. Since GRaCE-AGE started, Worcester has started using GRiST in all secondary care services.

KU Leuven and Maastricht Instruments are continuing to develop exciting new sensors and have a PhD student funded by GRaCE-AGE helping improve user interfaces for older adults, including the self-assessment version of eGRiST.

BeWell Innovations and eGRiST are setting up a commercial collaboration that will benefit ExtraCare, a charity running residential villages for older adults in the community. Evolyst is a software development company that is also setting up a collaboration agreement with eGRiST to help improve mental-health in the workplace. And *Galassify* has disseminated GRiST expertise into the community so well that it has led to the establishment of the GRaCE Cafe in All Saints Church, Leamington Spa, that is rapidly growing towards a franchise model.

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What eGRiST Ltd offers right now

eGRiST (www.egrist.org) is a mental health application that is seriously intelligent and fun to use. Its expertise comes from thousands of trained practitioners and from you and me, who are experts in our own mental states. It reduces risks such as suicide, learns what keeps people safe, improves wellbeing, and connects everyone within an **eGRiST Canopy of Care** that includes family, friends, and mental health providers.

eGRiST is being used by NHS services, private hospitals, charities, and members of the public. Assessments and advice are generated 24 hours a day, every day of the week. By the end of December, 2018, the database had 300,000 completed assessments for 150,000 patients carried out by 3,000 mental-health practitioners. The data provide a valuable resource for researchers to increase understanding of risks and how to improve people's mental health, safety, and well-being.

Two versions are also available for people without any clinical or mental-health training. One is for self assessments, myGRiST, and the others is a "friends/carers" version that is specifically designed for supporting the informal carers network.

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Unique properties of eGRiST, www.egrist.org

1. *An intuitive approach to risk assessment* that is easy to use and requires no specialist training to get started.
2. *Inbuilt expertise* based on how mental health practitioners naturally think and reason about risk.
3. *Database of one million risk evaluations* for suicide, self harm, harm to others, self neglect, and vulnerability that links detailed information about a person to a trained mental-health practitioner's evaluation of risks from 0 (no raised risk) to 10 (maximum risk).
4. *The latest expertise* using sophisticated machine learning algorithms that update GRiST predictions and advice as new assessments arrive.
5. *Multiple versions* for all age groups and specialist services that are fully integrated with each other.
6. *Shared decision making* because the GRiST software can be used during the consultation itself and people can bring their own myGRiST self-assessments they may have done in advance.
7. *Easy access via patient record systems* so that GRiST is available at the click of a button with no additional login information required.
8. *Saves precious clinical time* by letting assessors focus on only those data that are important and relevant for the patient and current context.
9. *Value for money* using a "Software as a Service" model where the fixed annual licence fee gives access to all functionality as and when it is implemented.
10. *Participation in research* as part of the academic activities underpinning GRiST. We welcome any organisations that would like to explore research questions using GRiST in their services and will provide them with all the help they need.

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Coming up in the next few months

Now that eGRiST is a separate company, we are exploring commercial collaborations with our partner organisations and other companies that will add value to what eGRiST is doing. These are some of the highlights in the coming months.

Collaboration with BeWell Innovations to integrate GRiST with the BeWell platform that provides validated sensor data for home and hospital assessments.

Partnership with Evolyst to improve mental health in the workplace for the benefit of both employees and the organisation as a whole.

Sales and marketing have been taken over by Goldfish, which will make a big difference to the client base.

Student mental health version of eGRiST in development and being submitted to the Office for Students funding call.

Birmingham City Council collaboration on a grant funded by the Ministry of Housing to investigate how technology can help improve care in the community.

Partnership with Redgear, which is a dynamic company based in the Czech Republic and manufactures an ambient sensor that we are trialling with ExtraCare independent living villages.

Online training material for carers that we are developing alongside a consortium of organisations from Hungary, Ireland, Spain, and France. This is part of the GRandis XXI Erasmus+ European grant.

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