



TELEMATICS TRUST ANNUAL REVIEW 2022

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FOREWORD

For over 30 years, the Telematics Trust has existed to support innovation in the use of technology to deliver education and training for the cultural, social and environmental benefit of Victorians. In a year that saw the gradual return to 'new normal', with hybrid working conditions and greater digital literacy carried through, it has been an interesting time to invest in projects that are harnessing the power of telematic technology for greater educational outcomes.

Like most sectors, technology and education are continuing to recover from the disruption of COVID-19 and integrate its lessons. We've seen a number of positive trends emerge, such as widespread upskilling in digital technologies and greater respect for the work of educators. We've also seen questions arise around how to address differing levels of technological access, and how to provide adequate social care to support student well-being. It's a new world with new challenges for those seeking support from Telematics. The Trust recognises these challenges and has provided flexible support to our grant partners.

Our 2022 Grant Round received an impressive range of applications that adeptly responded to these challenges and broadly demonstrated the impact that innovative approaches to education and training can have on improving lives. It's clear that innovation is changing faster than ever, and the Trustees are reassured in the Telematics belief that backing new ideas is vital.

From these applications, the Trustees selected 15 projects aimed at strengthening education delivery in areas as diverse as disease intervention and prevention, data analytics and language acquisition. The total of this grant round was over \$748,000, bringing the total granted by the Trust to the Victorian community since inception to \$14.7 million.

This year's Grant Round saw a significant increase in the number of applications from universities as they continue to innovate following the disruptions of the pandemic. While there were fewer applications from other sectors, the Trustees look forward to supporting new ideas from diverse organisations throughout the continued recovery from Covid over the coming years.

The Trust is continuing research into its impact over the last 30 years, and we look forward to sharing these stories with you in due course.

Thank you for your interest in the work of the Telematics Trust. To get in touch, please contact our Secretariat on the details provided at the end of this report.



ABOUT US

OUR VISION

Our vision is for technology to transform lives through education and training for the cultural, social and economic benefit of Victorians.

OUR MISSION

The Trust is committed to funding initiatives that support our vision by demonstrating innovative use of technology through education and training.

The initiatives demonstrate the innovative use of technology through education and learning, and they aim to measurably improve the well-being of the community and environment.

The Trust provides unique funding opportunities to individuals, educational institutions, government, business, social enterprises and not-for-profit organisations.

The Trust funds initiatives that use technology to reach diverse groups and address important practical problems in our community and environment through education.

OUR HISTORY

The Telematics Course Development Fund (Telematics Trust) is a public charitable trust founded on 18 December 1987 by the Hon. John Cain, then Premier of Victoria. The Trust was initially funded with a \$3 million grant by the Victorian State Government over a two-year period, and its corpus has since grown to \$12.7 million.

The Trust was established for the purposes of public education and training in Victoria, for the promotion of the development, marketing, sale and delivery by 'telematic means' of education and training courses, and for the use of new information technologies for distance learning outside existing educational and training institutions within Victoria.

Since 1988, the Telematics Trust has assisted numerous organisations through the provision of grants, equity and debt investments in projects that the Trustees believe will further or promote technology based education and training in Victoria.

The Telematics Trust is committed to the development and use of new information and communication technologies (ICT) that support innovative educational initiatives within Victoria and as such provides unique funding opportunities to individuals, educational institutes, business and not for-profit organisations that are exploring the possibilities of using ICT for educational purposes.

The Trust is particularly interested in targeting and funding the application of ICT to learning processes and projects that are:

- in need of special attention
- would be assisted by seeding grants
- are not within the province of other funding bodies.



The Sunrise Catalogue project, supported by the Trust in 2022, investigates the historic and sometimes world-first use of computers in a collection held by Museums Victoria to answer contemporary questions about computer-based learning.

Pictured: Georgia Eshuys (nee Grant) and Richard Holbeach working on a simulation of climbing Mt. Everest, circa 1984. Photographer Rowen Lewis.



Victor McConvey OAM and Rachael Mouer from Fight Parkinson's, which received support from the Trust in 2022 for the Community Hub. Victor and Rachael are pictured here with Geelong Community Seminar attendees. The in-person community seminars feature information on a range of topics designed to help people better understand Parkinson's, its treatments and the value of social connection.

The Community Hub, directly compliments this health education initiative and further amplifies accessibility to all people with Parkinson's regardless of cultural background, gender identity, location or socioeconomic status.

GRANTING OVERVIEW

SINCE INCEPTION

475
grants

310
individual
organisations
and university
departments

Since 1988 the Trust has
made grants of close to

\$15 million

OUR GRANTING IN 2022

In 2022, the Telematics Trust supported 15 projects with one-off grants of up to \$50,000 across six focus areas.

Grants approved:

15

Total value of grants:

\$748,234

Focus areas:

- Arts and Culture
- Community and Economic Development
- Disability Services
- Education
- Employment and Training
- Health, Wellbeing and Medical Research

2022 FUNDING BY FOCUS AREA

Education | \$249,294

Health, Wellbeing and Medical
Research | \$299,754

Community and economic
development | \$50,000

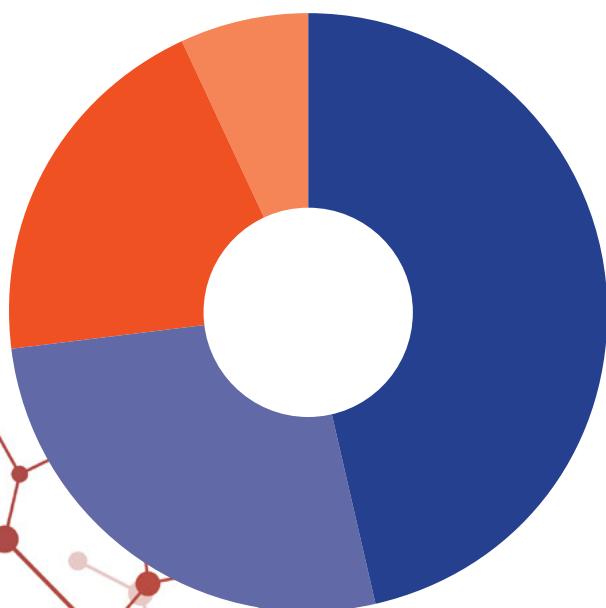
Employment and training | \$50,000

Arts and culture | \$49,999

Disability services | \$49,187



2022 FUNDING BY TARGET POPULATION GROUPS

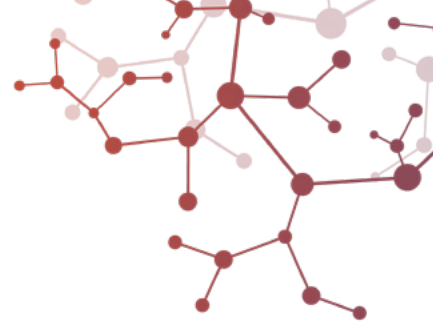


People with a disability, illness or
disease | \$348,659

General population | \$200,000

People experiencing socio-economic
disadvantage | \$149,575

Men | \$50,000



GRANTEES FOR 2022

COURSE/SOFTWARE DEVELOPMENT

GRANTS APPROVED: 1

VALUE OF GRANTS: \$50,000

PERCENTAGE OF TOTAL GRANTS: 7%

WHYHIVE | \$50,000

WhyHive is a social enterprise that exists to make data analytics accessible for people creating change. Operating as a consultancy since 2018, WhyHive offers strategic data insights to corporates, startups and not-for-profits. Its business model cross-subsidises profits from corporate projects to fund projects for impact-driven organisations.

Helping Impact Organisations Learn About Their Data Through the Development of an Intuitive Data Exploration Tool

Data insights are critical to measure impact and make strategic decisions, but upskilling in data is daunting for many not-for-profit workers. This project will build a software tool that makes analytics more accessible for impact organisations. The tool will be powerful and easy to use, reducing upskilling barriers so that any not-for-profit worker can learn about their data.

DIGITAL MAPPING

GRANTS APPROVED: 1

VALUE OF GRANTS: \$50,000

PERCENTAGE OF TOTAL GRANTS: 7%

MUSEUMS VICTORIA | \$50,000

Established in 1854, Museums Victoria (MV) is the largest public museums organisation in Australia. The organisation cares for Melbourne Museum, Scienceworks, Immigration Museum and The Royal Exhibition Building, which together present unique experiences for over two million visitors each year.

The Sunrise Catalogue: Descriptions of Technology-Supported Learning

The use of technology to enhance learning outcomes has proliferated in recent decades. Starting in the 1980s, Museums Victoria's Sunrise School investigated how learners approached and responded to new technologies. This project will see MV acquire the Sunrise Collection, which contains material that reflects over 40 years of technology-supported learning, in order to catalogue and describe this history. Through analysing the collection, MV researchers and curators will not only identify significant items but also reveal descriptive criteria that can be used to classify different types of learning. These descriptive categories can then be used to link to more relevant resources. The results will be submitted for international standardisation and published for use by students and teachers alike.



E-LEARNING PLATFORM

GRANTS APPROVED: 5

VALUE OF GRANTS: \$250,000

PERCENTAGE OF TOTAL GRANTS: 33%

BAKER HEART AND DIABETES INSTITUTE | \$50,000

The Baker Heart and Diabetes Institute's mission is to reduce death and disability from cardiovascular disease, diabetes and other related health disorders. The Institute's vision is to personalise medicine in order to predict an individual's health risks, intervene and prevent the onset of disease and its complications years before they strike.

Improving Access to Digital Resources for Diabetes

Baker Institute will create a library of educational videos to help people living with diabetes manage the disease independently, reducing the burden on health systems. Delivered via an app, this project will be particularly beneficial for people lacking direct access to healthcare services and will be available to people in Victoria, across Australia and potentially internationally. Feedback gathered during a pilot project will help inform the app's design and prepare for its widespread rollout.

FIGHT PARKINSON'S | \$50,000

Fight Parkinson's (formerly known as Parkinson's Victoria) is a leading source of specialised health information, advice and services. Through research, education and support, the organisation strives to improve the lives of people living with Parkinson's and Atypical Parkinson's.

The Community Hub by Fight Parkinson's

Compounded by COVID-19 uncertainty, access to reliable health education is critical in the Parkinson's community. An Australian-first Parkinson's initiative, The Community Hub is an interactive online platform with an educational course for individuals recently diagnosed with Parkinson's, as well as their carers. Following 16 expert-led modules, individuals will develop self-management strategies for this complex and evolving condition. The platform will be accessible at any time, on any device and from any location, free of charge.

LA TROBE UNIVERSITY | \$50,000

La Trobe University was established in 1967 to broaden participation in higher education in Melbourne's north and, later, in regional Victoria. The university supports access, diversity and inclusivity while undertaking world-class research that aims to make a difference to some of the world's most pressing problems, including climate change, securing food, water and the environment, building healthy communities, and creating a more just and sustainable future.

Development of the e-Virtual Space Laboratory

At its heart, science education involves knowledge transfer, communication, engagement and commitment. The development and expansion of high-speed internet access in Australia has created a range of opportunities to involve Australians in national projects. This project will develop the 'e-Virtual space laboratory' as a way to bring greater knowledge and practical understanding of space research into high school settings, with a focus on rural communities.

PETER MACCALLUM CANCER CENTRE | \$50,000

Peter MacCallum Cancer Centre (PMCC) is a world-leading cancer research, education and treatment centre and Australia's only public health service solely dedicated to caring for people affected by cancer.

Cancer School Phase 2

PMCC's Cancer School project builds on the knowledge that adult learners seek meaningful learning experiences that are timely and applicable to their individual situations. Phase 1 of the project produced four videos covering key topics of information that were identified by consumers as most important to know at the point of diagnosis. Phase 2 will produce three proposed online modules, providing short lessons that are treatment, symptom and tumour-specific. Having the ability to attend Cancer School in their own time empowers patients and carers to actively engage in the learning process.

RMIT UNIVERSITY | \$50,000

RMIT is a global university of technology, design and enterprise in which teaching, research and engagement are central to achieving a positive impact. The University enjoys an international reputation for excellence in professional and vocational education, applied and innovative research, and engagement with the needs of industry and the community.

A Digital Role-play Game to Support Young Construction Workers' Communication for Safety and Mental Health

Construction apprentices experience disproportionately high rates of workplace injury and mental ill-health. Poor workplace communication practices contribute to these problems. In this project, a participatory design approach will be used to develop a video-based interactive role-play game, through which apprentices and supervisors can learn and practise effective interpersonal communication skills. These skills ensure apprentices' work-based learning environments are respectful, inclusive and safe.

ONLINE HUB

GRANTS APPROVED: 3

VALUE OF GRANTS: \$148,515.70

PERCENTAGE OF TOTAL GRANTS: 20%

LATROBE UNIVERSITY | \$49,753.70

La Trobe University was established in 1967 to broaden participation in higher education in Melbourne's north and, later, in regional Victoria. The university supports access, diversity and inclusivity while undertaking world-class research that aims to make a difference to some of the world's most pressing problems, including climate change, securing food, water and the environment, building healthy communities, and creating a more just and sustainable future.

Aphasia Therapy Online – Vietnamese, Mandarin, Greek

Aphasia is a communication disability occurring in one-third of stroke survivors. Therapy requires customised tasks for speaking, comprehension, reading and writing. This project will adapt the free aphasia therapy site into three languages: Mandarin, Vietnamese and Greek. Adapting the site will enable free access to aphasia therapy for more people across Australia and internationally, reducing structural and personal burden.

MONASH UNIVERSITY | \$49,187

Consistently ranked amongst the world's top 100 universities, Monash University is committed to the highest quality of teaching, learning, research, and diversity of professional and community activities. The University's new strategic plan, Impact 2030, aims to support its response to major global challenges – climate change, preserving geopolitical security and fostering thriving communities.

A “UNIQUE” Approach to Autism

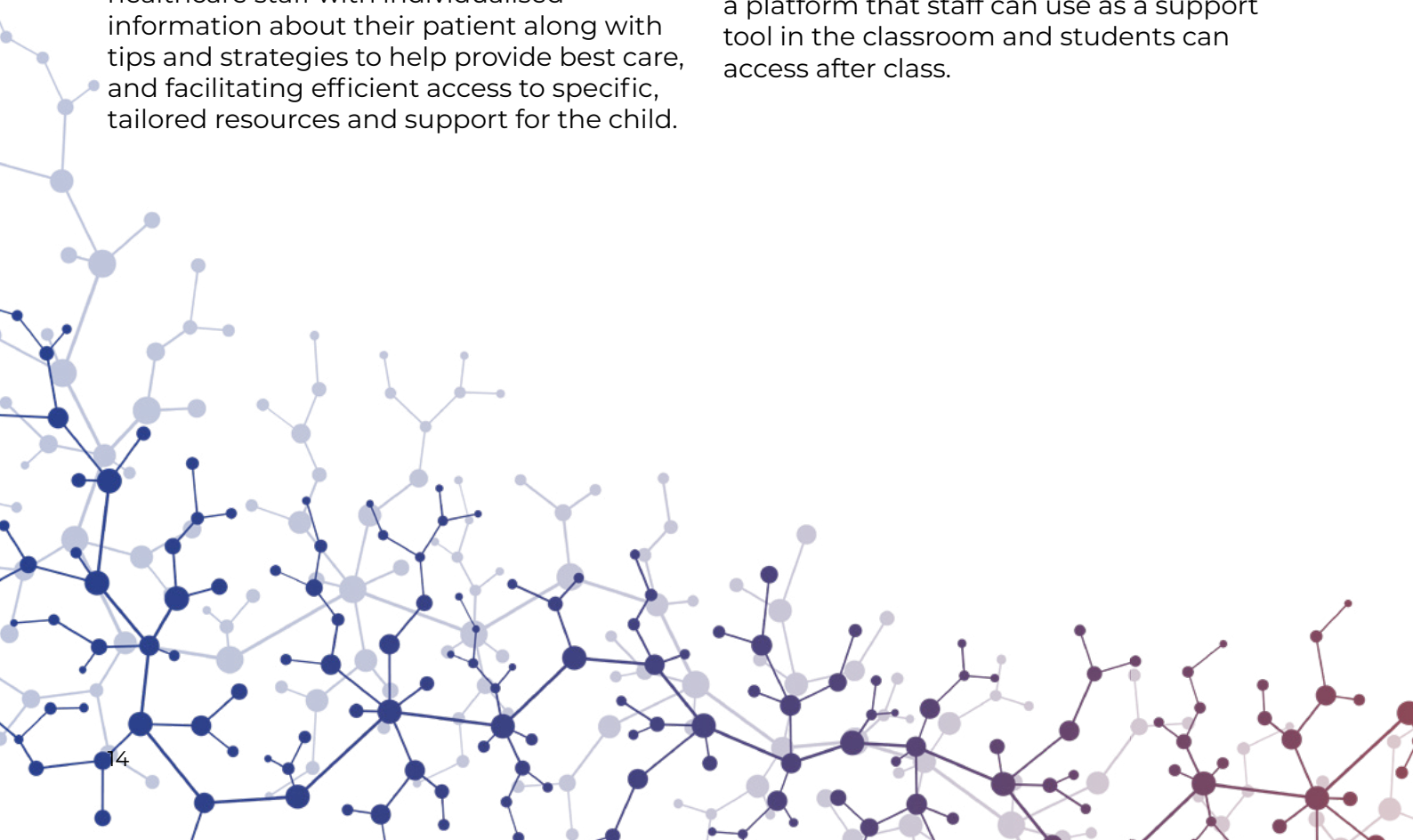
UNIQUE is a digitised interactive visual communication prototype, designed to communicate an autistic child's individual strengths, abilities and needs in a simple and accessible format. The tool addresses some unmet challenges by improving communication efficiency, equipping healthcare staff with individualised information about their patient along with tips and strategies to help provide best care, and facilitating efficient access to specific, tailored resources and support for the child.

SKYLINE EDUCATION FOUNDATION | \$49,575

The Skyline Education Foundation provides financial, educational and emotional support for VCE students from areas experiencing high socio-economic and educational disadvantage, as determined by the Index of Community Socio Educational Advantage. They are currently working in partnership with 30 schools in Melbourne, Geelong and North East regions of Victoria.

HATCH ACCESS: Academic Support for VCE Students

To address the current Victorian teacher shortage crisis and its impact on staff and students, Skyline Education Foundation aim to provide a solution both in and beyond the classroom. This project will create online modular courses for three VCE subjects, on a platform that staff can use as a support tool in the classroom and students can access after class.



ARTIFICIAL INTELLIGENCE TECHNOLOGY

GRANTS APPROVED: 5

VALUE OF GRANTS: \$249,718

PERCENTAGE OF TOTAL GRANTS: 33%

MELBOURNE HEALTH | \$50,000

The Royal Melbourne Hospital (RMH), Victoria's largest acute tertiary hospital, provides cancer treatment programs, translational research, surgical and medical expertise, and key support services including clinical care and emergency medicine. RMH is one of Victoria's largest providers of cancer care and treatment, caring for more than 37,000 patients each year.

The Penile Health App: Using Artificial Intelligence to Triage Penile Lesions

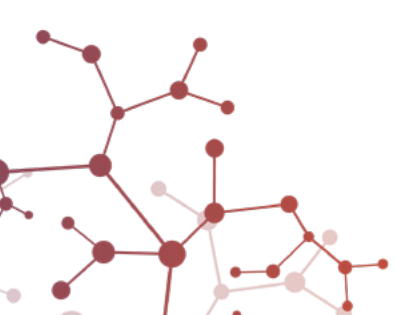
Penile cancer is a sinister disease with significant morbidity. Early recognition and treatment are paramount to penile preservation and long-term survival, yet many men present with advanced disease due to lack of awareness and social stigma. This project aims to release a free smartphone app using digital photography to reduce healthcare barriers for men with penile lesions. The app will help educate men, encourage seeking treatment and aid primary care clinicians with referral triaging.

READING OUT OF POVERTY | \$50,000

Reading Out of Poverty promotes literacy skills in early childhood and provides literacy resources and support services to families with young children, aged 0 to 5 years, from low socio-economic backgrounds, including migrants, refugees and Indigenous Australians.

A Clearer View of Reading

This project will implement newly developed innovative eye-tracking technology to assess reading levels in approximately 2,000 students located in five highly disadvantaged primary schools in the regions of Geelong, Bendigo and Dandenong. This education technology is real-time, objective and proven to be 97% accurate in the early identification of reading difficulties.



MONASH UNIVERSITY | \$149,718

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The Travelling AirSticks Laboratory: Bringing Accessible Music Making Workshops with New Technologies to Children | \$49,999

This project will run a series of music-making workshops that inform the design of new electronic instruments for kids with and without disability. The workshops will take up to 25 kids between the ages of six to 13 on a magical audio-visual story of musical instruments. Using a custom electronic instrument that converts movement into sound, each group of kids will develop a collaborative performance while learning about music, dance, lights and new technologies such as 3D printing, sensors and coding.

Generation of Fingerspelling in Australian Sign Language | \$49,719

This project will create the first Auslan fingerspelling generator, which will enable learners to view fingerspelled words signed naturally by an avatar. Users will type a word in English into the generator and then see the fingerspelled translation. The fingerspelled content will be interactive, allowing users to rotate the view in 3D space and observe the fingerspelling from different angles.

'Jem' the Body Image Education Chatbot | \$50,000

This project will build on the piloted education-focused body image chatbot – a simple computer program that used conversational artificial intelligence (AI) to have human-like conversations. The pilot program helped over 20,000 young people in less than 12 months. The next phase of the project will co-design and develop a more advanced AI chatbot named 'Jem', based on feedback from young Victorians.



We kept noticing, that when people went to explore their data...

Options were

Hire

an analyst

✗ Too expensive

Learn

the tools myself

✗ Too hard & time consuming

Use native

analytics

✗ Too basic

“Thanks to support from the Telematics Trust, we have been able to focus on growing and scaling our social impact startup. We’ve since won the Startup VIC pitch competition for under 30s. The support from the Trust has accelerated our ability to both grow as an organisation and to focus on impact as we do so.”

T Guthrie, Co-Founder and CEO of 2022 grantee WhyHive, presents at Startup Victoria’s 2022 pitch night.

Our Trustees

RICCI SWART AM (CHAIR)

Ricci Swart was appointed to the Board in December 2009 and has been Chair since 2018. She has over 30 years' experience in film and new media, producing several award-winning documentaries and feature films. She has extensive experience in identifying the potential of innovative technologies, working with government, education and the philanthropic sectors. Formerly a board member of the Australian Centre for the Moving Image (ACMI), Ricci is now Chair of ACMI's Development Committee.

DANNY GOROG

Danny Gorog was appointed in June 2014. Danny is a founder, investor and currently the CEO of Snap Send Solve. He is an active investor in early-stage start-ups as well as a board member and adviser. In September 2009, Danny co-founded Outware Mobile (outware.com.au), Australia's leading mobile app developer responsible for developing apps for ASX 100 companies. Danny is also currently a board member at Melbourne Symphony Orchestra.

GAVIN APPEL

Gavin Appel was appointed in January 2019. Gavin is a startup adviser and tech investor with 25 years of global operational and investing experience in the technology industry spanning startups, corporates and venture capital. Prior to founding startup advisory firm Ignition Lane, Gavin was one of the first employees and CTO at Hitwise (acquired for US\$240 million), SVP at Experian and VC Partner at Square Peg.

CLAIRE MURRAY

Claire Murray was appointed in January 2021. Claire has worked in consulting, advisory and management roles in both the private and public sectors. She has diverse experience in the innovation, science, technology, education and creative industries. In her role as Senior Consultant at dandolo partners, a public policy consulting firm, she has focused on strategic and business analyses, policy and program reviews and the provision of general policy advice to federal and state government clients, government departments, publicly funded entities and private sector organisations. Claire is also a council member of the Brotherhood of St Laurence's David Scott School.



Telematics Trust

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