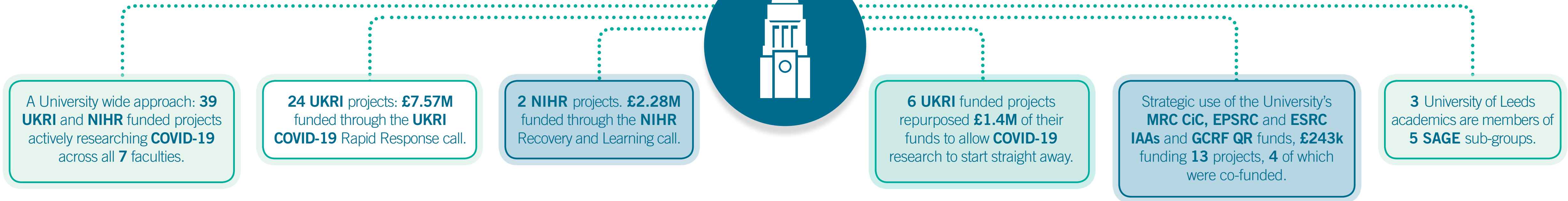


University of Leeds: Urgent Response to COVID-19



Engineering the approach to COVID-19

Pete Culmer - LeVe. MRC CiC (£3.5k), EPSRC IAA (£18.4k), QR GCRF (£14.8k)

- Repurposing of a non-invasive ventilation system to provide continuous positive airway pressure (CPAP) respiratory support to COVID-19 patients.
- Success secured the team follow-on funding from MRC P2D.
- Expected outcomes: a new 'resource-light' CPAP system; potential commercial licensing of the new system; a clinical study, to demonstrate the feasibility; a parallel study in Uganda.

Project partners: NIHR MedTech Cooperative in Surgical Technologies, Bradford Teaching Hospitals NHS Foundation Trust, Leeds Teaching Hospitals Trust, Mengo Hospital, MedAid International.



Cath Noakes - COVID-19: TRACK: Transport Risk Assessment for COVID Knowledge. £1.36M EPSRC UKRI Rapid Response

- A network of UK research collaborators.
- New computational models to assess the likelihood of COVID-19 infection through aerosol, close range and contact transmission during typical bus, tube and train travel scenarios.
- Expected outcomes: a risk planning tool that can assist transport operators in determining how to safely manage the public transport network and what the best strategies are for mitigating virus transmission.

Project partners: Public Health England, Defence Science and Technology Laboratory, Department for Transport, and rail and bus operators.



Medical Technologies tracking COVID-19

Carl Thompson - CONTACT Tracing in Carehomes using digital Technology (CONTACT). £1.55M NIHR COVID-19: Recovery and Learning

- An interdisciplinary research team working with four external partners.
- Evaluating the effectiveness of wearable devices to trace the direct contacts of care home residents.
- Expected outcomes: enable care homes to effectively plan and evaluate infection control procedures and improve the protections of residents.

Project partners: South Tyneside Council, Leeds Care Association, MicroShare Inc., British Geriatric Society.



University of Leeds expertise on SAGE

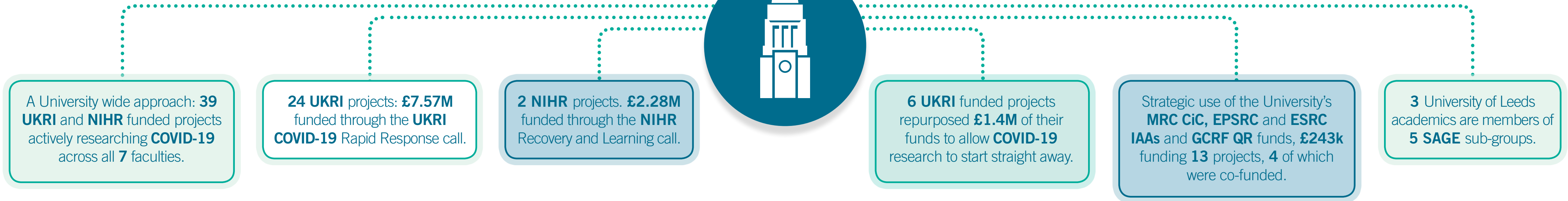
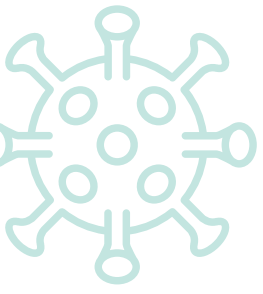
Professor Cath Noakes, Professor of Environmental Engineering for Buildings. Member of SAGE and sub-groups; Environmental Modelling Group, Children's Task and Finish Working Group, Hospital Onset COVID-19 Working Group (HOCl)

Professor Iyiola Solanke, Professor of EU Law and Social Justice. Member of SAGE and sub-group; Scientific Pandemic Influenza Group on Behaviours (SPI-B)

Professor Mark Wilcox, Professor of Medical Microbiology. Member of SAGE and sub-groups; Environmental Modelling Group, Hospital Onset COVID-19 Working Group (HOCl)

*UKRI and NIHR 80% FEC, IAA and CiC schemes only fund directly incurred costs and do not fund PI time, IDCs, travel, estates or infrastructure costs. All figures are correct as of 20.04.2021

University of Leeds: Urgent Response to COVID-19



COVID-19, lockdown, education and our families

Kate Hardy - The impact of COVID-19 on the provision of Early Years childcare in England and Wales.

- Extensive Advisory Board of fourteen childcare experts.
- Investigating the impact of the pandemic on childcare.
- Expected outcomes: gain an understanding of how to influence policy and the interventions needed to ensure safe care environments for workers, children, and families to build a resilient future for childcare.



£350k ESRC
UKRI Rapid Response

Alison Fildes - The immediate and longer-term impact of U.K. 'lockdown' on the health, behaviour and well-being of U.K. families.

- Investigating how the lockdown is impacting the health and wellbeing of UK children and their families.
- Combining data collected before the pandemic with extensive new data on how stresses such as excessive confinement and health and education anxieties are affecting the home environment.
- Expected outcomes: understand how to mitigate negative impacts for families and how to shape policies which promote child health and wellbeing in the future.



£123k ESRC
UKRI Rapid Response

Hannah Nash - The impact of COVID-19 related school closures on foundation skills in reception children.

- Multidisciplinary project.
- Aiming to understand the impact of school closures and learning in lockdown on reception age schoolchildren.
- Expected outcomes: provide a better understanding of which children need extra support when they return to school and contribute to a national strategy on reducing the negative impact of any future school closures.



£151k ESRC
UKRI Rapid Response

University of Leeds expertise on SAGE

Professor Cath Noakes, Professor of Environmental Engineering for Buildings. Member of SAGE and sub-groups; Environmental Modelling Group, Children's Task and Finish Working Group, Hospital Onset COVID-19 Working Group (HOCl)

Professor Iyiola Solanke, Professor of EU Law and Social Justice. Member of SAGE and sub-group; Scientific Pandemic Influenza Group on Behaviours (SPI-B)

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