

# Kyoto University On-site Laboratory: Center for Integrated Data-Material Sciences (iDM)



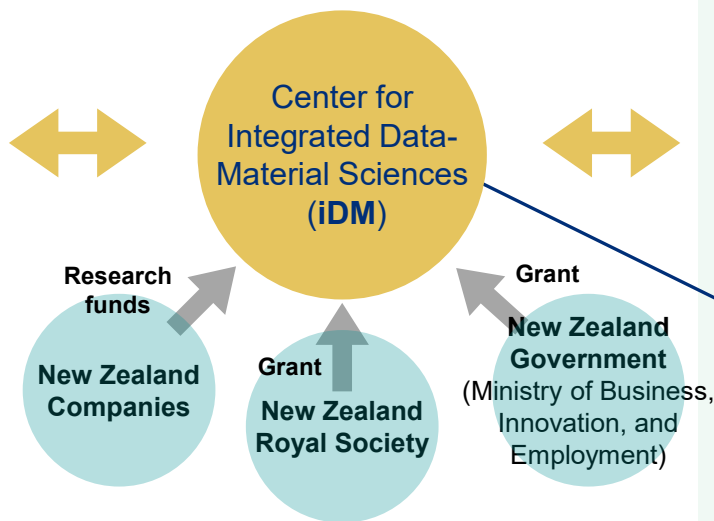
## General Information

- ◆ Approved in FY 2021
- ◆ Established in January 2022
- ◆ Established by the Institute for Integrated Cell-Material Sciences (iCeMS), Kyoto University Institute for Advanced Study (KUIAS)
- ◆ Partner institution: The MacDiarmid Institute for Advanced Materials and Nanotechnology, New Zealand
- ◆ Purpose: Perform integrative data science-materials science research
- ◆ Location: Wellington University, Wellington, New Zealand (outbound)
- ◆ Functions: Deepen research on material sciences using computational science and data science, and internationalize Kyoto University's research and education activities by enhancing collaboration with industry and local research institutions.

## Positive ripple effects to the university's activities

- Development of interdisciplinary fields combining data science and material science.
  - International industrial application of materials developed at Kyoto University
  - Cultivating the perspective of contributing to the international community through basic research among students and early-career researchers.
  - Raising the profile of the Kyoto University brand in Oceania.
- Expanding local research networks and enhancing the brand recognition of Kyoto University and KUIAS through establishing a policy for research on semiconductor materials and porous materials with local research institutions, which is anticipated to contribute to the achievement of a decarbonized society.
- Creating networks with local companies and Japanese companies, which can lead to research collaboration.
- Encouraging exchanges among early-career researchers and international students.
- Promoting the fusion of the humanities and sciences through research plans that fully respect the beliefs and customs of the Maori (indigenous people of New Zealand).

## Activity Overview



## The MacDiarmid Institute for Advanced Materials and Nanotechnology (MDI), New Zealand



To Mana Tūrangia Whakawhānaki  
MacDiarmid Institute  
Advanced Materials & Nanotechnology

**New Zealand's largest-scale and highest-level virtual research institute in material science**  
(31 laboratories from 5 major universities participate)

**University of Auckland**  
(7 laboratories)

**Massey University**  
(2 laboratories)

**Victoria University of Wellington**  
(12 laboratories + Administrative office)

**University of Canterbury** (6 laboratories)

**University of Otago** (4 laboratories)



- Accelerating research collaboration in **computing and data science**, with a focus on **material science**, which is a strength of both Kyoto University and MDI.
- Promoting research exchange and brain circulation as a hub of the Kyoto University-MDI network.

