

# 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



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“Investments in infrastructure – transport, irrigation, energy and information and communication technology – are crucial to achieving sustainable development and empowering communities in many countries.”

(THE Impact Rankings)

32

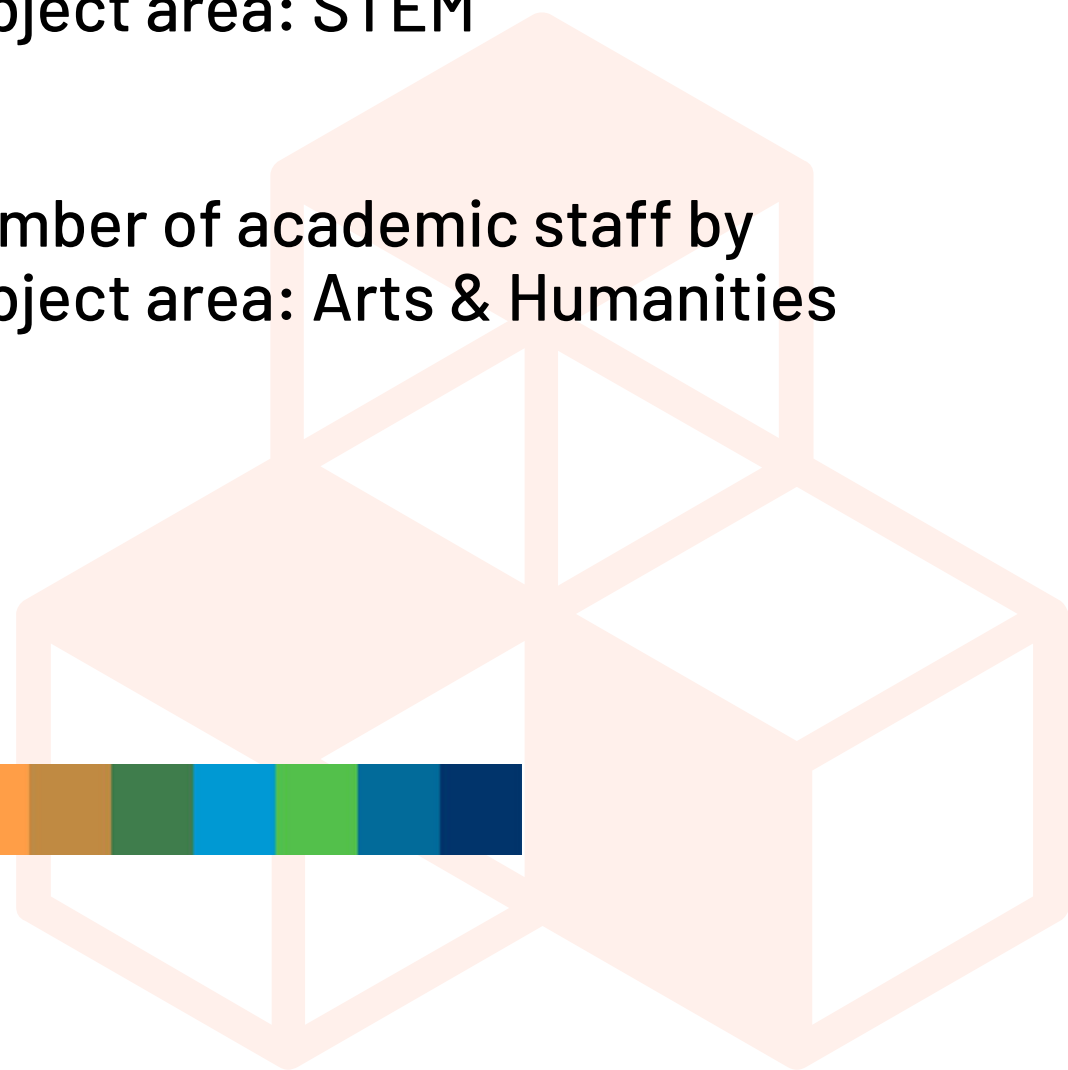
Number of university spin-offs

858

Number of academic staff by subject area: STEM

204

Number of academic staff by subject area: Arts & Humanities





## ITS' INNOVATION

# ITS Invents a eBicare Cough Analyzer

Researchers from ITS have invented a COVID-19 detection device through the sound of coughing, named eBicare Cough Analyzer. With a thin and small sensor microphone that can capture surrounding sounds, the device has a processor which can analyze a cough and determine whether the person has been infected with COVID-19. If the cough is not detected as a COVID-19 patient, the cause of the cough can be traced further. The grouping of these categories is based on the adjustment of the frequency, amplitude, and harmonic components of the user's lung sound. Aligned with ITS motto "Advancing Humanity", Dr. Dhany hopes that the device will help to provide proper health facilities at a low cost for people.



## ITS' INNOVATION

# ITS Launches Ocean FarmITS

In developing sustainable investment in infrastructure and innovation, ITS contributes in launching the first marine ecotourism dual aquaculture offshore building in Indonesia, Ocean FarmITS, which can be a place for fish cultivation as well as a place for marine tourism. In addition, Ocean FarmITS is also able to solve the problems of fishermen on the south coast who have difficulty getting fish when the weather is bad and help exploit the potential of the sea in Indonesia through a touch of technology.

