



CHALLENGE 2: HEALTH & DIGITALISATION

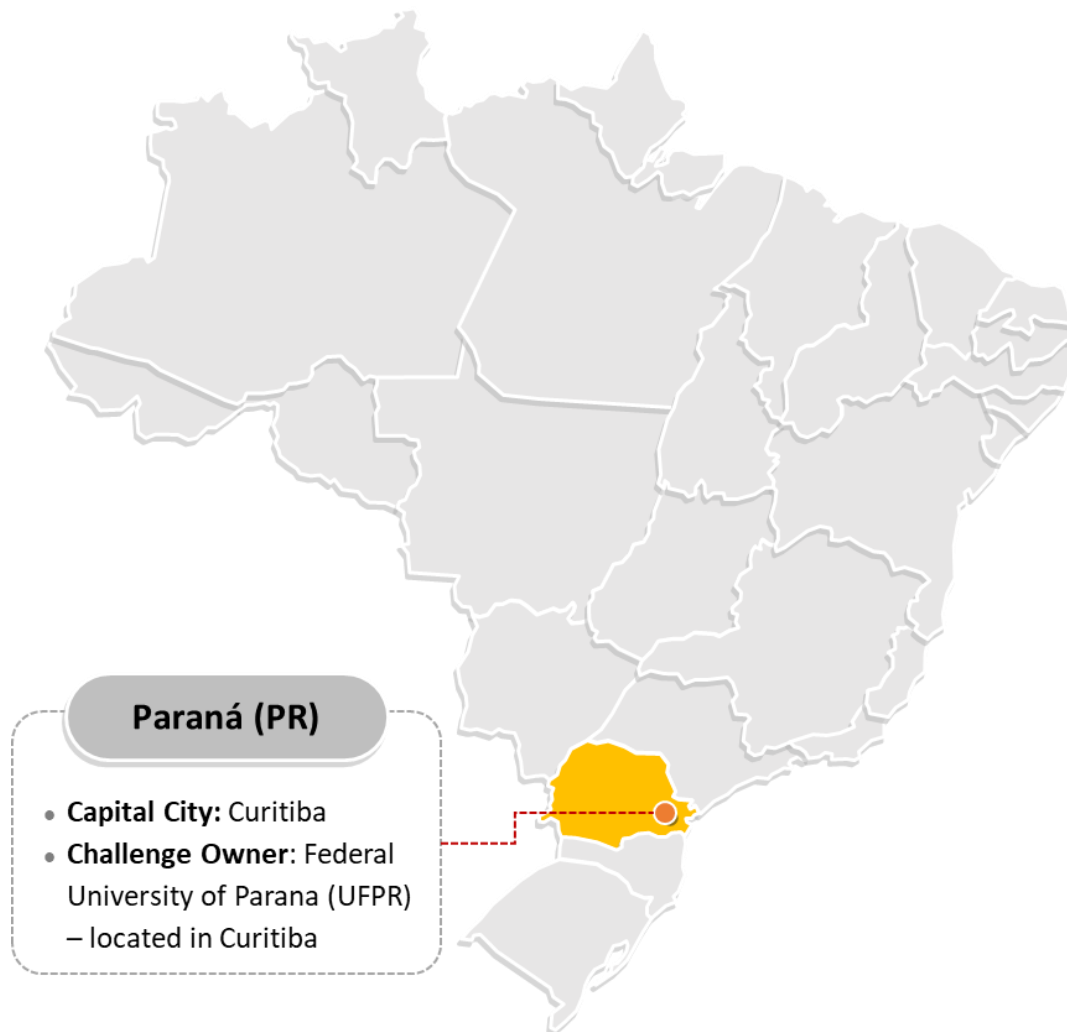
Development of a decision support information system for bed and discharge management using telehealth and data science tools. This system shall be able to provide an analysis of suspected and confirmed cases of COVID-19 in a public federal university hospital linked to the [UFPR \(Federal University of Parana\)](#).

The demand of managing beds and discharges of chronic patients is not recent, but the COVID-19 pandemic made it urgent. This challenge meets the urgent need to develop technological innovations in healthcare management that will directly contribute to a more organised care for patients with suspicion or patients with COVID-19 admitted to hospitals, in repressed demand or hospital discharge in Curitiba, Brazil.

Currently, UFPR's Clinical Hospital Complex has isolated initiatives connected to this scenario, such as the use of electronic spreadsheets to organize data from patients. . Hospital technicians (nurses, doctors and IT) are already involved in some actions, including reshaping work processes.

The development of an information system for bed and discharge management through telehealth will mainly contribute for the organisation of the installed capacity in the hospital. In addition, the information system will establish an online care of patients in the hospital's outpatient clinics to monitor them and manage demand, and also to the management of COVID-19 coping strategies, enabling a better planning of resources allocation.

- Desired Type of Solutions: product, service, business model, technology, processes
- Prize for Solution & Implementation: 10.000 €
- Application for solutions: <https://forms.gle/4sPrgQ86K6yEmion6>
- Deadline for Application: ~~15 September 2020~~ **9 October 2020 (extended)**



Target Audience

The demand of managing beds and discharges of chronic patients is not recent, but the COVID-19 pandemic made it urgent. The addressed target group include:

- Healthcare professionals of the Bed and Discharge Management Department that will have their work processes enhanced;
- COVID-19 patients that will be managed in a timely manner;
- General patients from ambulatory services that will have their demands addressed in a more suitable way, in terms of avoiding unnecessary visits to the hospital;
- Discharged patients that will be referenced properly to community-based units and will be managed by hospital teams as well;
- Hospital management that will have a clear understanding of their capacity, enabling a better planning of resources allocation.

Resources in place

Engaged workers, information system, administrative motivation, research support