

## PRESENTATION OF RESULTS FOR THE RESISTIR PROJECT

## WHAT IF WE COULD PREDICT AN OUTBREAK OF LEGIONELLA?



On 26th September 2019, Maxdata Software and the [Faculty of Sciences of the University of Lisbon \(Ciências ULisboa\)](#) held a public session to present the main results of the RESISTIR project.

The session, which was named “[Opportunities and Challenges in the Precision Management and Intelligent Prevention of Infectious Diseases](#)” was attended by health professionals representing the most prominent Portuguese hospitals.

The project, which began in 2016 and was co-financed by Portugal 2020, has allowed for a system to be developed, that **assesses the epidemiological status of a health unit and its area of influence in real-time**, with different types of mechanisms, including:

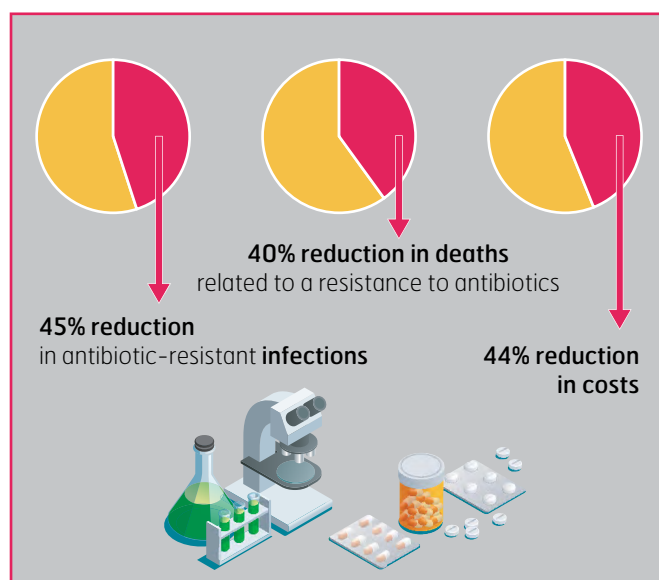
- > Automatic, personalised identification of the **risk of an infection developing during a hospital stay and of hospital re-admission**, for a patient or a clinical case;
- > Patient-oriented signalling of the **risk of a resistance developing**;
- > Monitoring and early warnings of **outbreaks originating from either the hospital or community** within the hospital's or health unit's sphere of influence.



Several health units collaborated in the project, including the **Northern Lisbon University Hospital Centre** (Santa Maria Hospital and Pulido Valente Hospital) and the **Vila Franca de Xira Hospital**.

One of the case studies used to test the mechanisms developed as a part of the project was the 2014 legionella outbreak that took place at Vila Franca de Xira. **The RESISTIR system would have detected the outbreak 4 days earlier than the date on which it was officially declared** (7th November 2014).

A human and economic impact study of antibiotic resistant infections was also carried out during the project, both with and without the use of the RESISTIR system. The main impacts of using the system developed in the project were identified as being the following (under the most conservative circumstances):



Maxdata is currently producing the functionality of the RESISTIR system, by integrating it in the 4th generation of its Clinidata® software.

co-financed by:



## THE 5TH EDITION OF THE MAXDATA COMPUTER EXCELLENCE AWARDS

## CIÊNCIAS ULISBOA DISTINCTION FOR THE BEST STUDENTS OF IT



On 15th April 2019, the best undergraduate, master's and doctoral students attending courses taught by the Department of Informatics in the University of Lisbon's Faculty of Sciences (Ciências ULisboa) received an award from Maxdata in recognition of their merit and excellence.

The awards were presented during a ceremony held to commemorate the 108th anniversary of the Ciências ULisboa Faculty.

The Maxdata Excellence in Computing Award is part of a broader initiative, which was launched in 2014 and aims to recognise the best students of higher education studying IT and health-related courses. Maxdata currently presents academic merit awards to students from 4 higher education institutions:

- > [Santarém School of Management and Technology](#)  
(Polytechnic Institute of Santarém)
- > [Viseu School of Health](#)  
(Polytechnic Institute of Viseu)
- > [University of Lisbon Faculty of Sciences](#)
- > [University of Porto Faculty of Medicine](#)

## INTERNATIONAL CONFERENCE - UNIVERSITY OF PORTO FACULTY OF MEDICINE

## MAXDATA SUPPORTS THE 14TH YES MEETING

The 14th YES (Young European Scientist) Meeting took place between 12th and 15th September 2019 at the University of Porto Faculty of Medicine (FMUP). The event was organised exclusively by FMUP students, who brought together around 500 young students of 15 different nationalities, all studying biomedical sciences.

Maxdata sponsored the awards, which were awarded for the best work presented orally and for the best public health and medical informatics poster.

To find out more about the conference, go to <https://yesmeeting.org>



## EVENTS

### Pharma Micro UK - Smi's 9th Annual Pharmaceutical Microbiology UK Conference

**Date:** 20 Jan / 21 Jan 2020  
**Location:** London, United Kingdom  
**Information:** <http://www.pharma-microbiology.com/COMS>

### MICAD2020 - The 2020 International Conference on Medical Imaging and Computer-Aided Diagnosis

**Date:** 20 Jan / 21 Jan 2020  
**Location:** Oxford, United Kingdom  
**Information:** <http://www.micad.org>

### HEALTHINF 2020 - 13th International Conference on Health Informatics

**Date:** 24 Feb / 26 Feb 2020  
**Location:** Valletta, Malta  
**Information:** <http://www.biostec.org/>