Futures

Science and Technology and Public Policies

Thereza C L Paiva

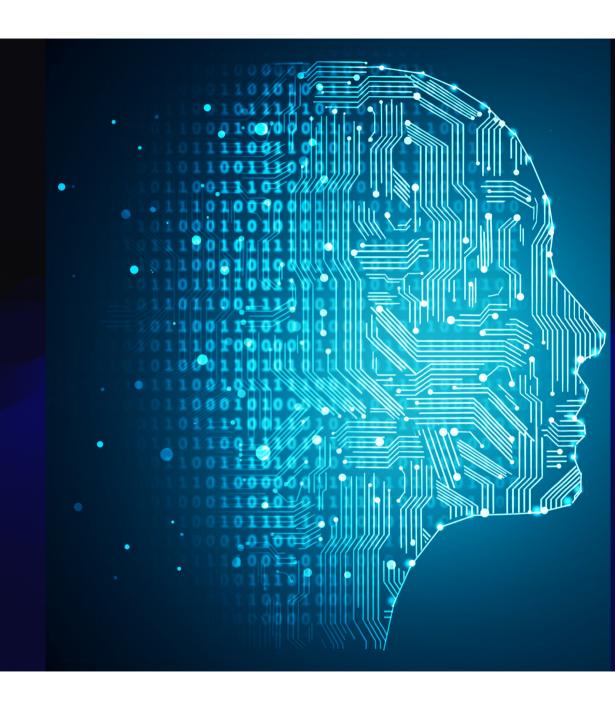


CIÊNCIA E TECNOLOGIA

Climate change Extreme events



New technologies Artificial inteligence



What is the City of Rio doing to prepare a better future?

Future of employment

Digital inclusion



Engenhão

Irajá

Madureira

Nova Brasília

Padre Miguel

Penha

Santa Cruz

Vila Aliança

Triagem

2023

+ 1230 courses

+ 52k attendees

2024

Realengo

Campo Grande

Pavuna



Branching out

Naves Satélites

In CIEP libraries



Santa Cruz Paciência Sepetiba



25 Navezinhas cariocas

Gamer Arena



First public Gamer Arena in South America

At Nave do Engenhão

Gamer development hub

Technology stations

Mobile stations

Partenership with SESI



Rio On Plataform

13k online attendees

Partnership with SENAC



Coming close to universities

Rio de Conhecimento

Social inclusion through Science



Fellowships for university students to solve community problems

Prize for undergraduate, masters and PhD female students





Applications opened until August 11



Innovation Hub for AI at Porto Maravalley

Opened to universities and research institutions from Rio

Funding for start-ups

Partnership with



SOON

Facing the effects of climate change

Digital twin of Rocinha's water content

Digital twin

It is a virtual representation of an object, a system or a process that is continuously updated and aims for virtual testing, optimization, process control and maintenance prediction and problem solving.



Rocinha

Densely populated - 70,000
Steep slopes
Several landslides over the years
Alerta Rio sirens rang more over past
12 years

With climate emergency, extreme events will become more frequent and the effects, such as increased rain, can be severe



Improve the quality of life of people living in Rocinha

Real time risk analysis

Fast emergency response

Medium and long term planning

Intervention trials

Sensible Rio Lab



Agreement with MIT Sensible Lab

Laser Sensoring and AI image analysis for favelas

Rocinha's digital twin

Community engagement

Living Lab

Rio Universities actively involved

Centralization of data from different City Hall departments



Nave do Conhecimento da Rocinha - 2025 Navezinha - last week

Thank you!