



# HOW TO SLAM THE GENDER GAPS OF WOMEN IN ROBOTICS?

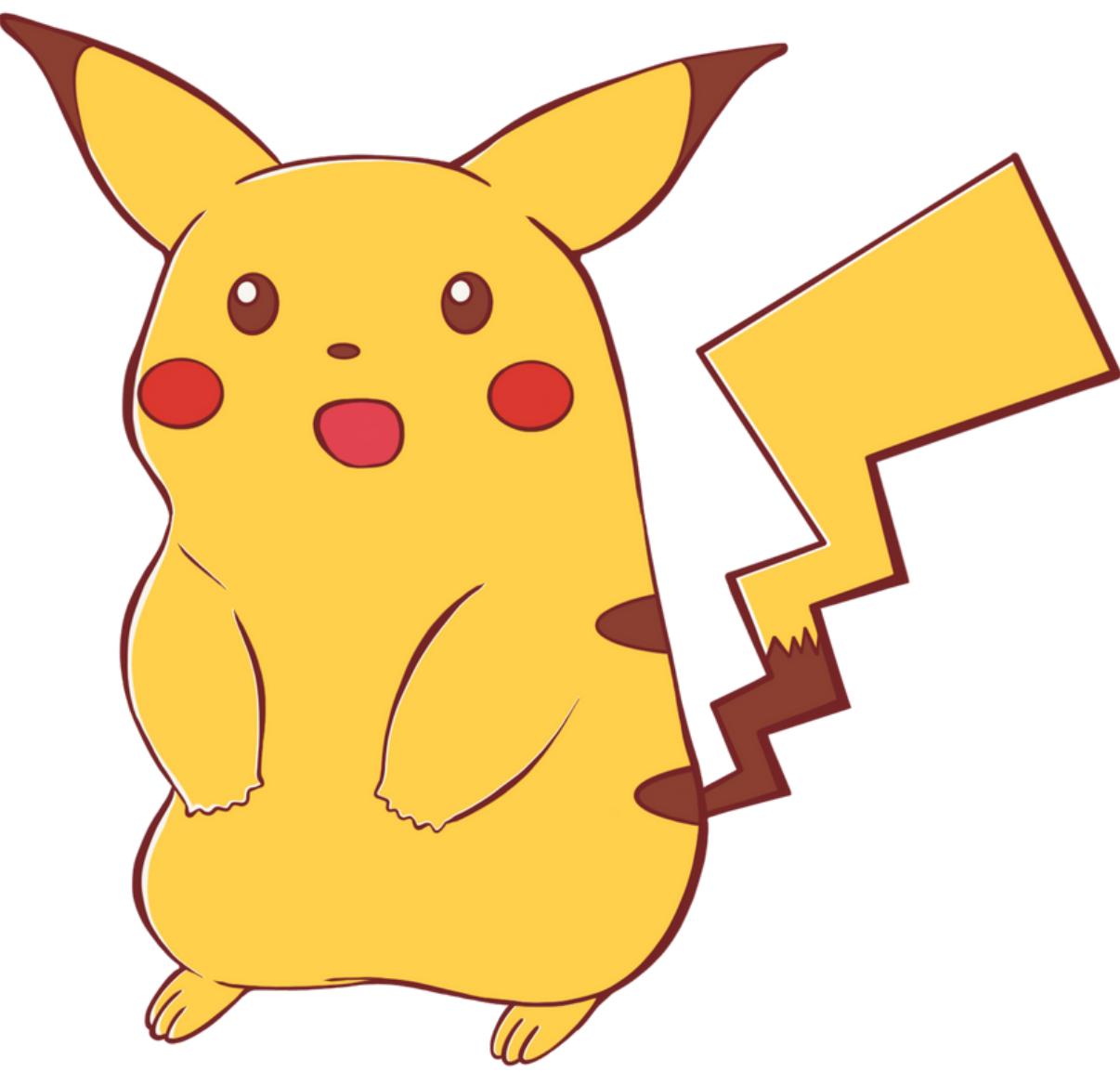
Belén Torres

Adobe Stock | 333618042



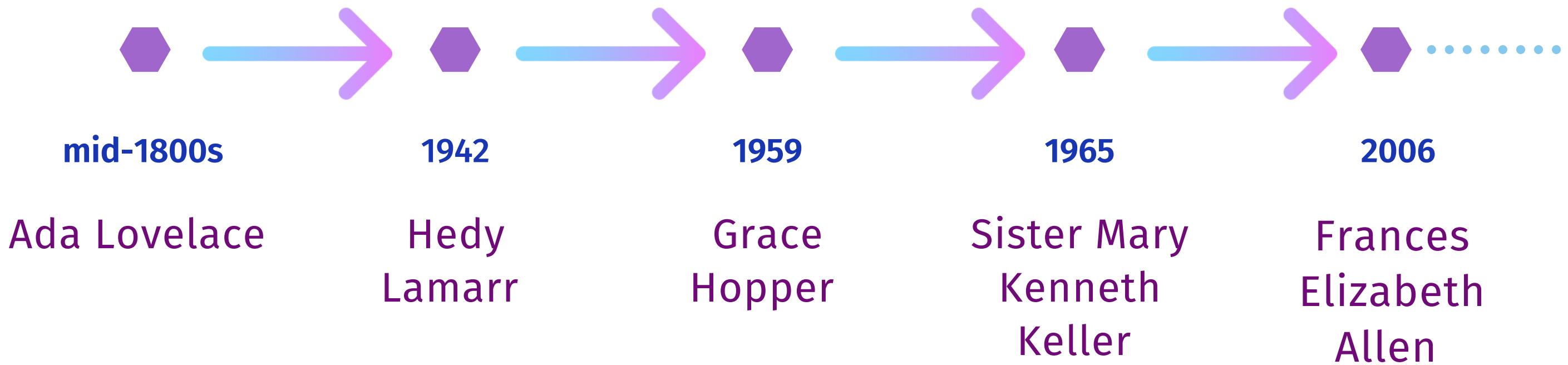
# Agenda

- Overview
- Problem
- Strategies
- Impact
- Conclusions



# Overview

## Important contributions



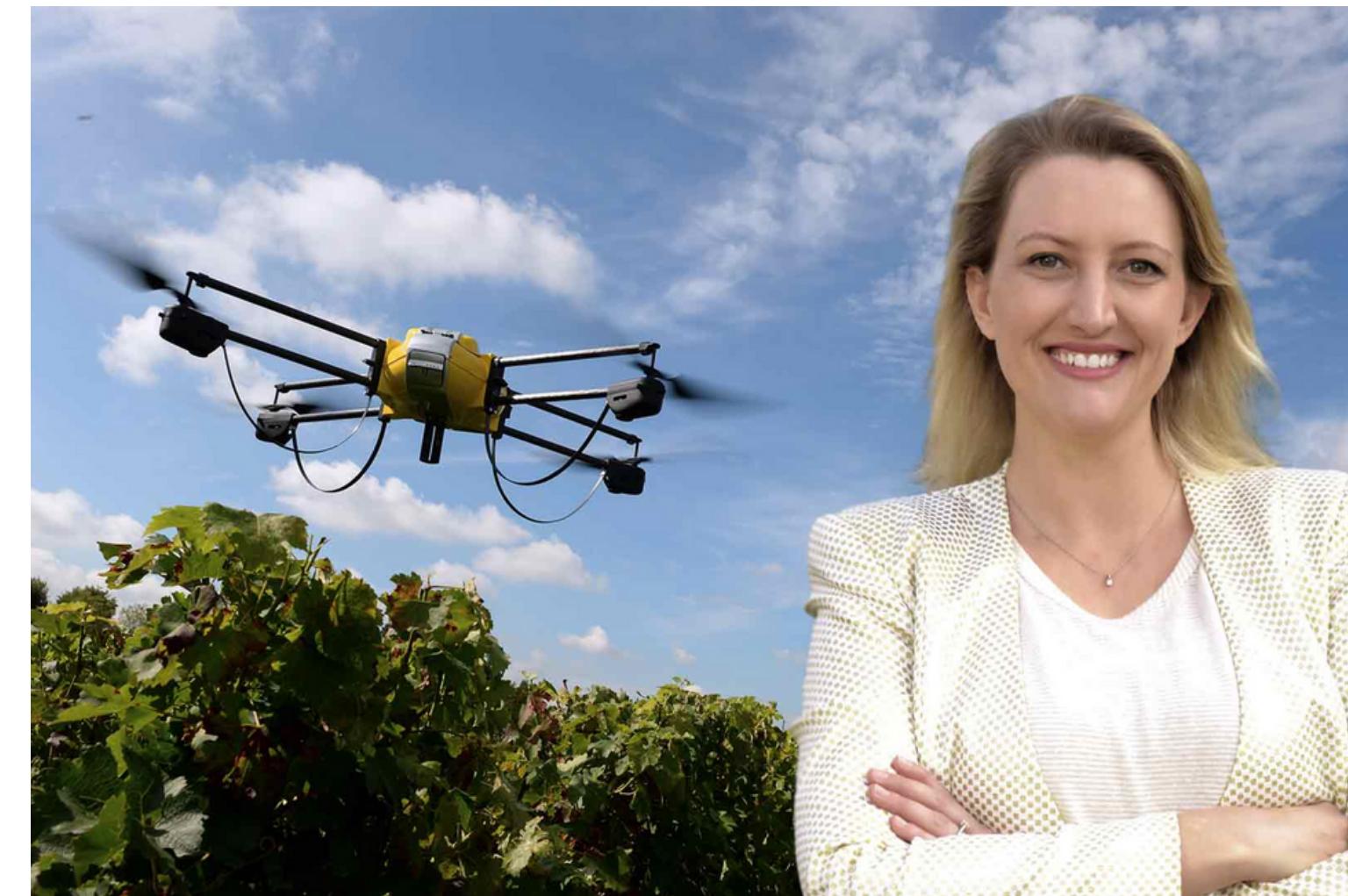
MANUFACTURING • EDITORS' PICK

# Ditch The Chalk: Tessa Lau's Dusty Robotics Raises \$45 Million To Automate Construction Plans



# Drones for good

By Catherine Ball / 21 January 2022



# Women in ROS and Gazebo

ROS



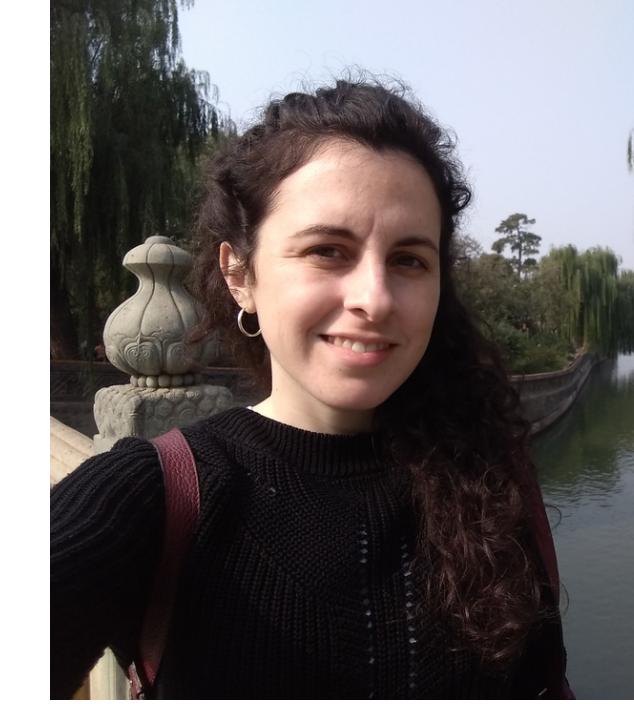
**Katherine Scott**

Developer Advocate at Open Robotics



**Louise Poubel**

Simulation Lead at Zipline



**Florencia Grosso**

Manager at Ekumen

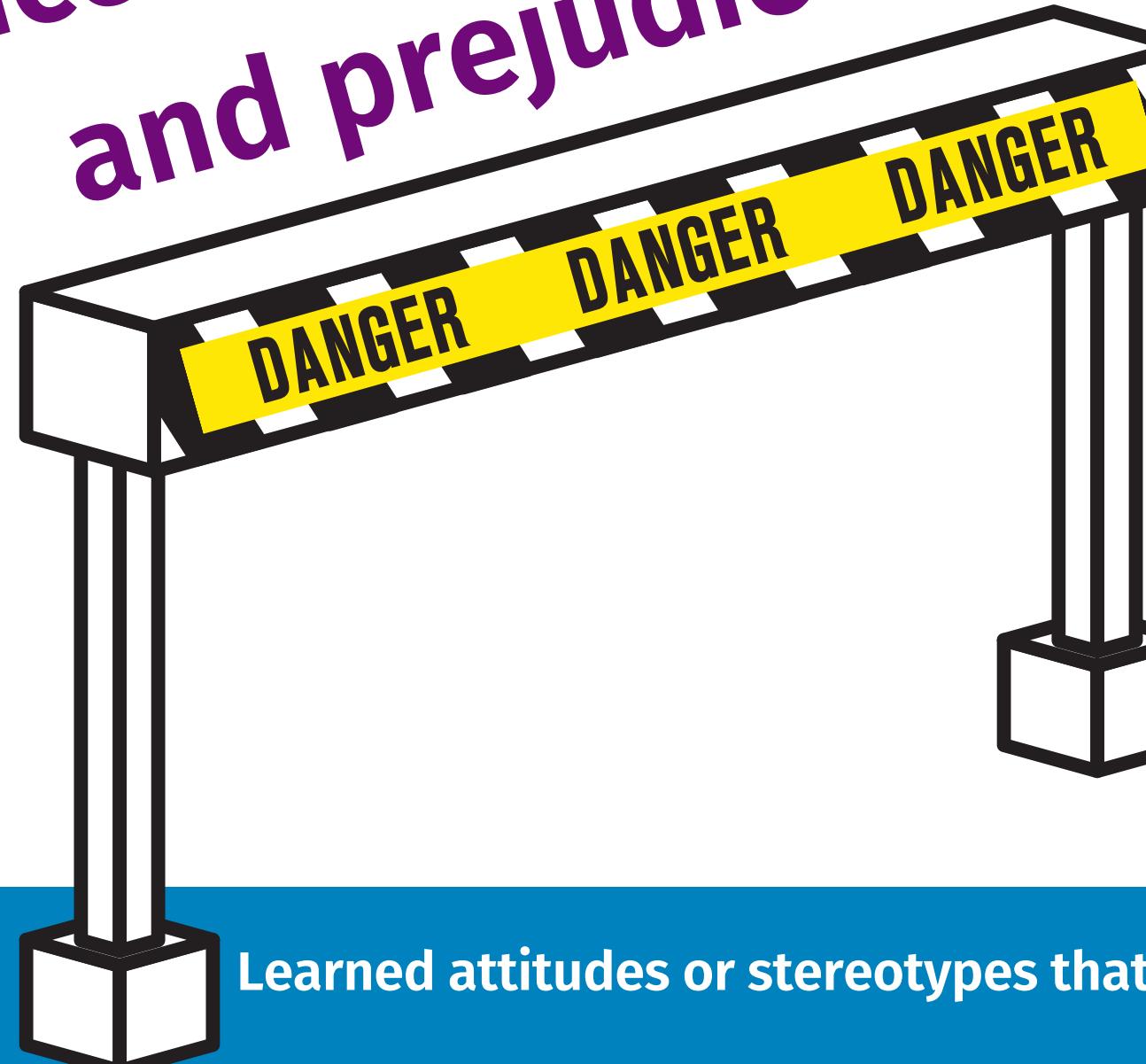


**Lola Segura**

Software developer at Ekumen

# Problem

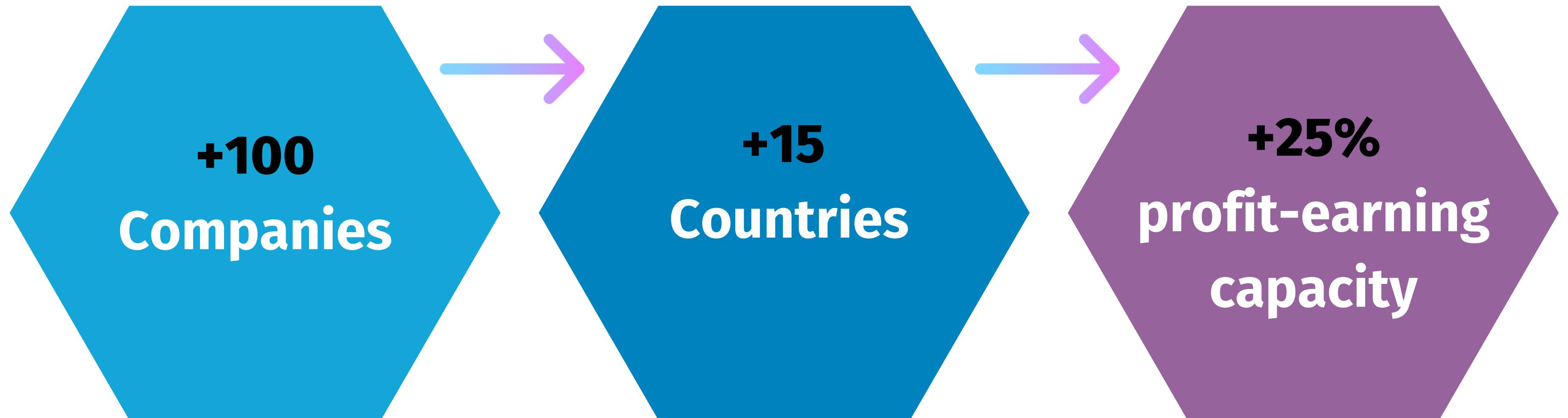
Unconscious barriers  
and prejudices



- CREATING a robot to perform security tasks masculine, the same robot programmed for care should be more feminine
- ASSUMING that the man on your robotics team is the leader
- HIRING committee favors male candidates over female candidates with similar experience

Learned attitudes or stereotypes that exist in our subconscious and can involuntarily affect the way we THINK and ACT

# Diversity Wins



# Bias in algorithms



Joy Buolamwini, computer scientist and digital activist based at the MIT Media Lab

# What can we do to bridge the gap?



# We should use SLAM's technique

Mapping

Locating

To find, identify and bridge the  
GAPS

# Some STEM INITIATIVES

- ROBOTEAM, Buenos Aires Argentina
- The STEAM Youth and Community Conference, San Diego, USA
- RoboCup@Home Education National, regional, international event
- One-Day Summer Camp for Female High School Students, New Jersey, United States
- IoT-based Temperature Monitoring system for Local Charcoal ClayKiln, Northern Thailand , Thailand

# STEM INITIATIVE in Latin America

Roboteam is an initiative carried out by a team of volunteers within the framework of IEEE WIE Argentina with the purpose of encouraging scientific-technological vocations in children and adolescents through free workshops.



# ROS Metrics



**208536**

visitors at July  
2021



**138527**

New users



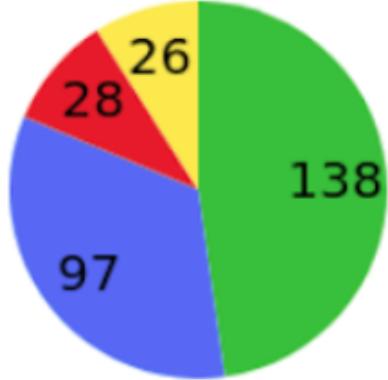
**9260 +25%**

number of  
papers citing:  
ROS

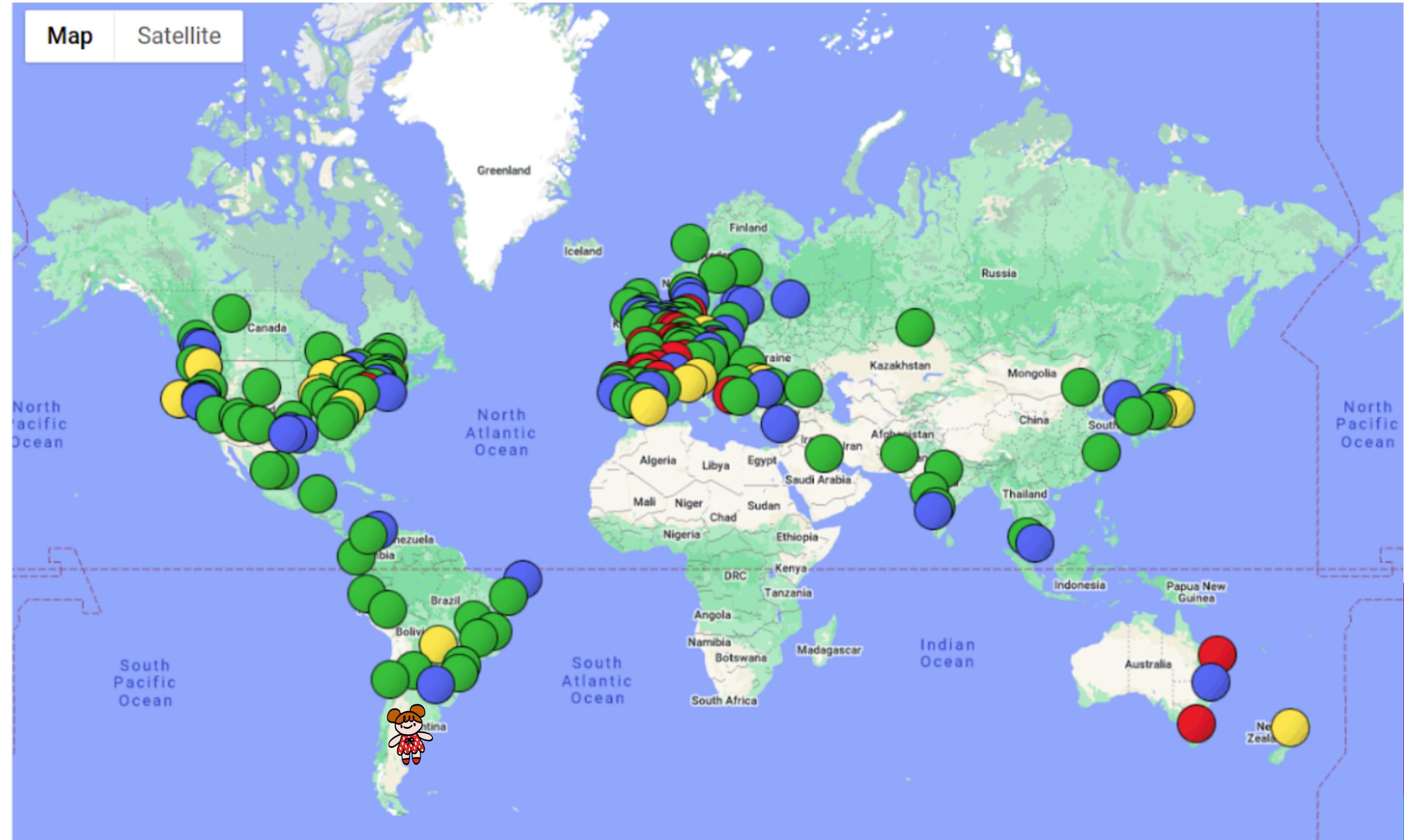
# ROS Users of the world

## ROS Users of the World

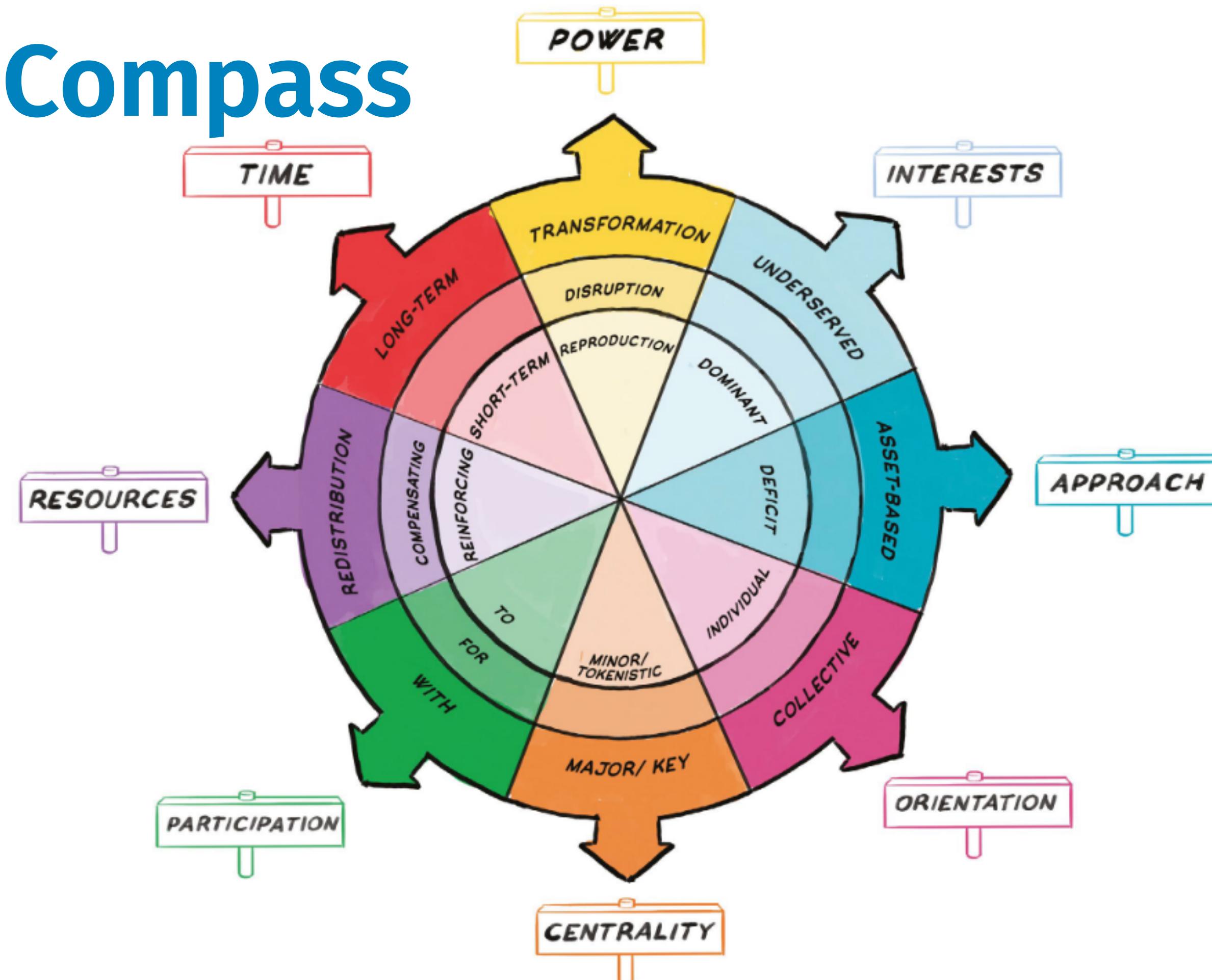
- GREEN - School
- BLUE - Company
- RED - Research Institute
- YELLOW - Other
- (white - unknown)



Add to or edit the map by changing the yaml files in [this repository](#), or by emailing [the map maintainer](#).



# Equity Compass



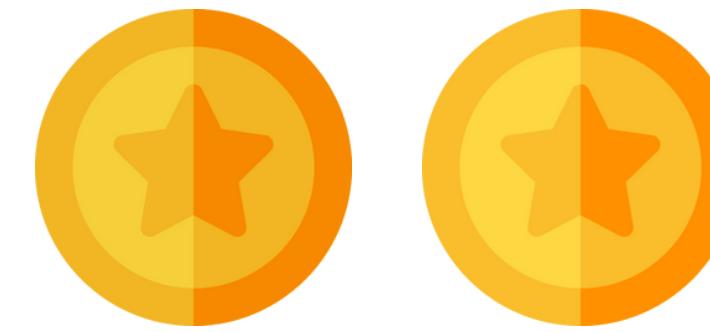


# **MAKE AN IMPACT**

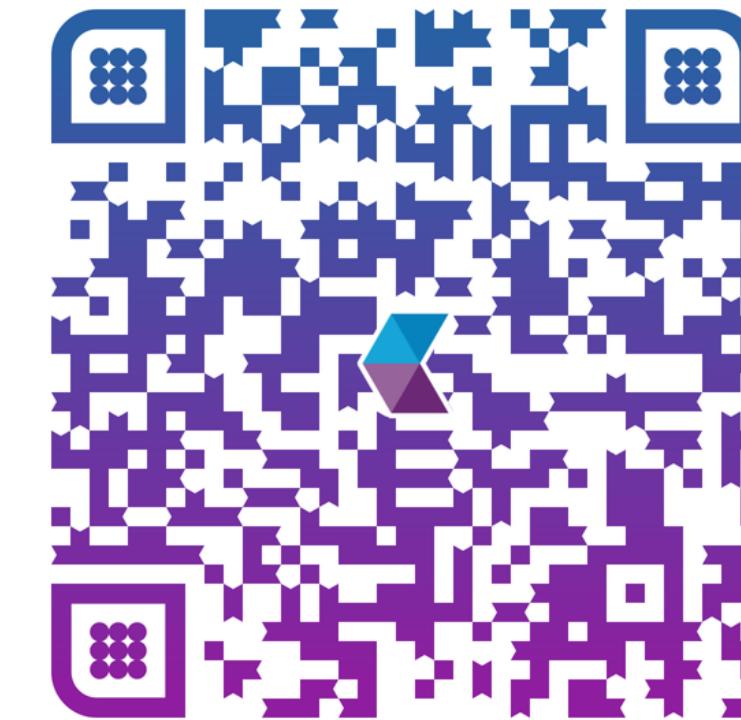
- 1- Supporting skills development for underrepresented talent**
- 2- Supporting and financing for companies and entrepreneurs**
- 3- Promoting regulation**



Let's use robotics to **improve the world**, to  
build a more inclusive and diverse future and  
to avoid further reinforcing and continuing  
gaps



You can find more STEM initiatives to support



Scan me

#ROSTeam



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← *The girl who dreamed of robots*

# Questions?

Thanks

Gracias

どうもありがとう

