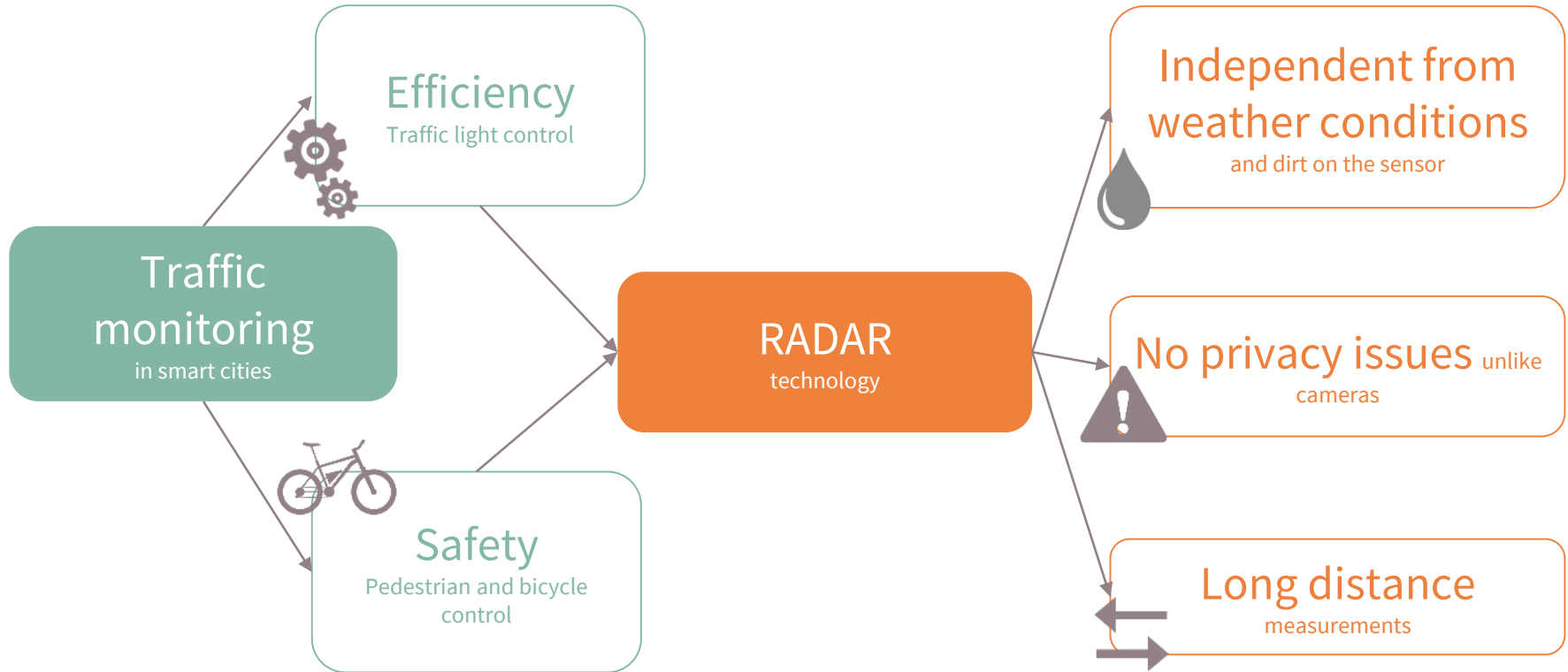
An aerial photograph of a city, likely Shanghai, showing a complex highway interchange in the foreground and a dense urban skyline with numerous skyscrapers in the background. A white network diagram with a central node and connecting lines is overlaid on the image, symbolizing smart city infrastructure.

# Radar-based traffic analysis in smart cities

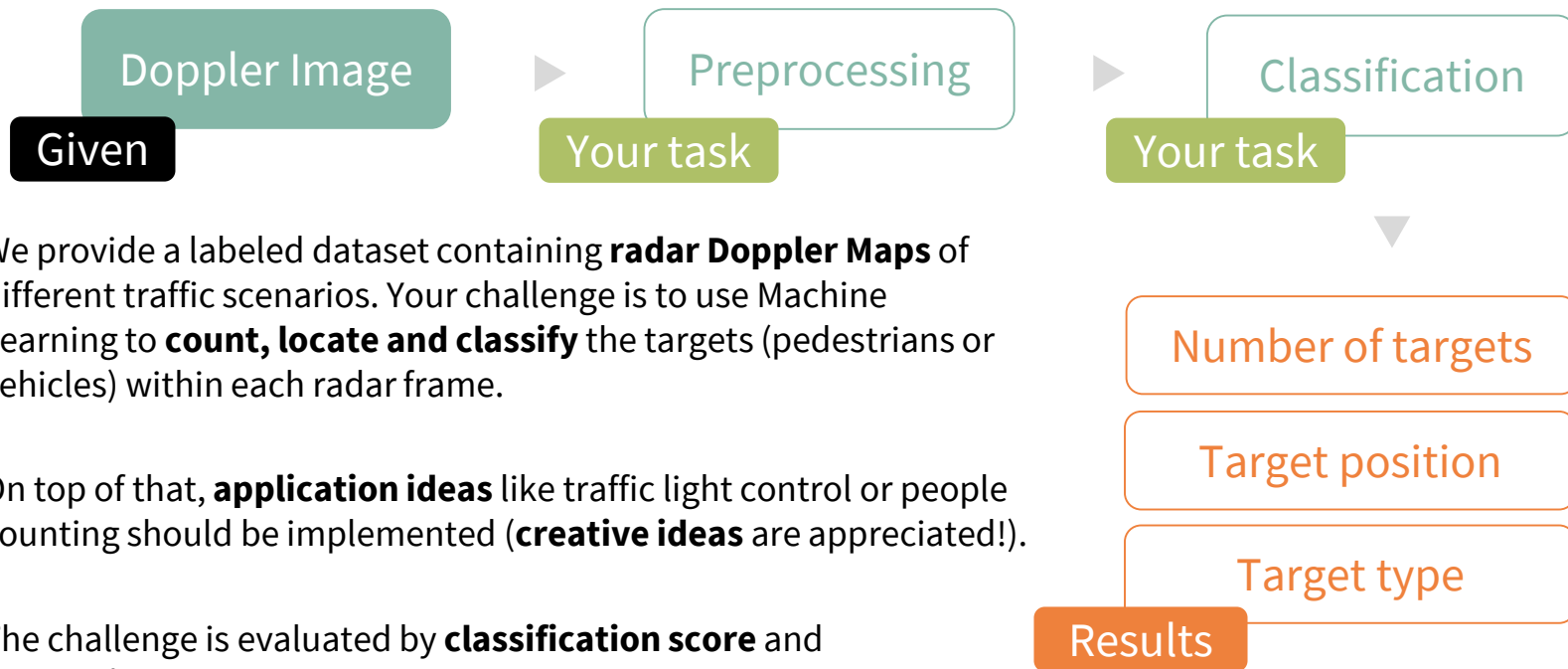
Infineon Technologies AG



# Motivation



# Challenge



We provide a labeled dataset containing **radar Doppler Maps** of different traffic scenarios. Your challenge is to use Machine Learning to **count, locate and classify** the targets (pedestrians or vehicles) within each radar frame.

On top of that, **application ideas** like traffic light control or people counting should be implemented (**creative ideas** are appreciated!).

The challenge is evaluated by **classification score** and **innovativeness** of your application idea.

# Your Profile

## Interests

Programming

Data science

Radar technology



## Technical skills

(one or more of these)

Python

or

Machine Learning

or

Radar

or

Statistics



## Soft skills

Open minded

Proactive

Teamwork



Part of your life. Part of tomorrow.