



# iRAP developments & horizon gazing

Monica Olyslagers

iRAP Global Innovation Manager and Cities Specialist

# iRAP in the future...

**Who** will be using iRAP tools?

**What** will they be using it for?

**What** will be the **impact?**

Changing technologies

Changing mobility patterns and vehicles

Ambitious road safety targets

Renewed focus on sustainability, equitability and accessibility



Road managers



Road financiers,  
policy and  
decision makers



Advocacy and interest  
groups (mobility clubs,  
schools)



Software & service  
providers



People



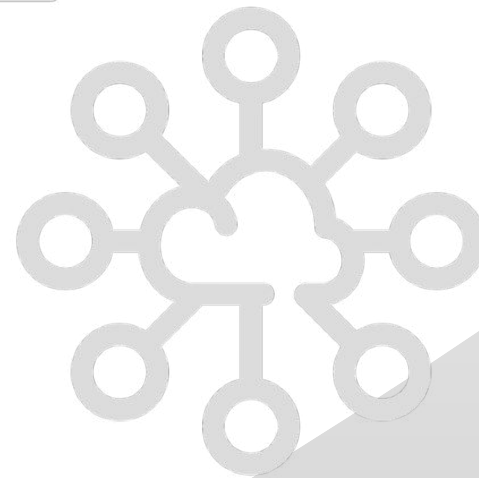
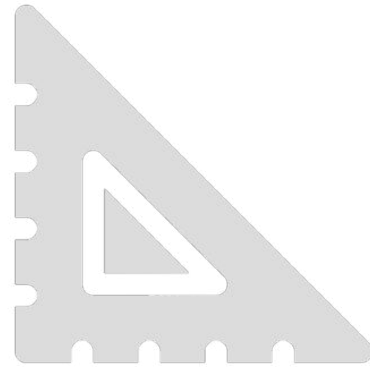


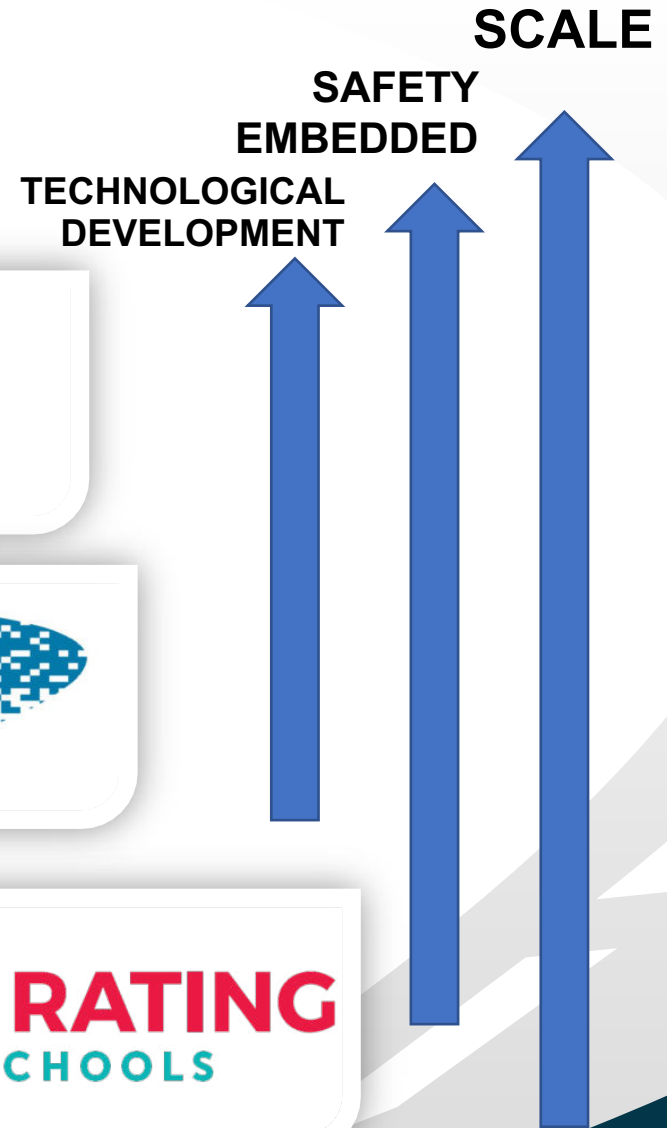
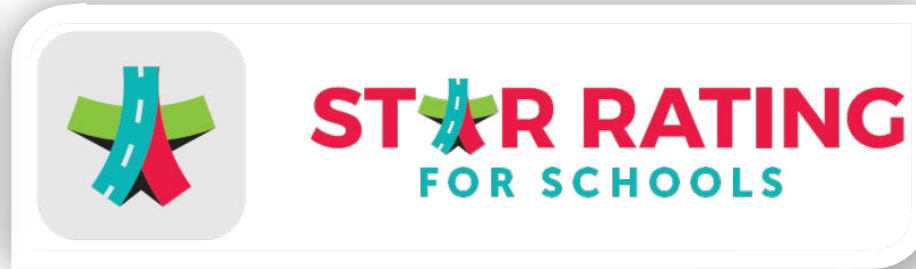
- Encourage and foster partner innovation
  - Provide oversight and governance of RAP applications and complimentary products
  - Support connection and collaboration
- = better tools and resources for everyone

# Innovation Framework

# Innovation Framework themes

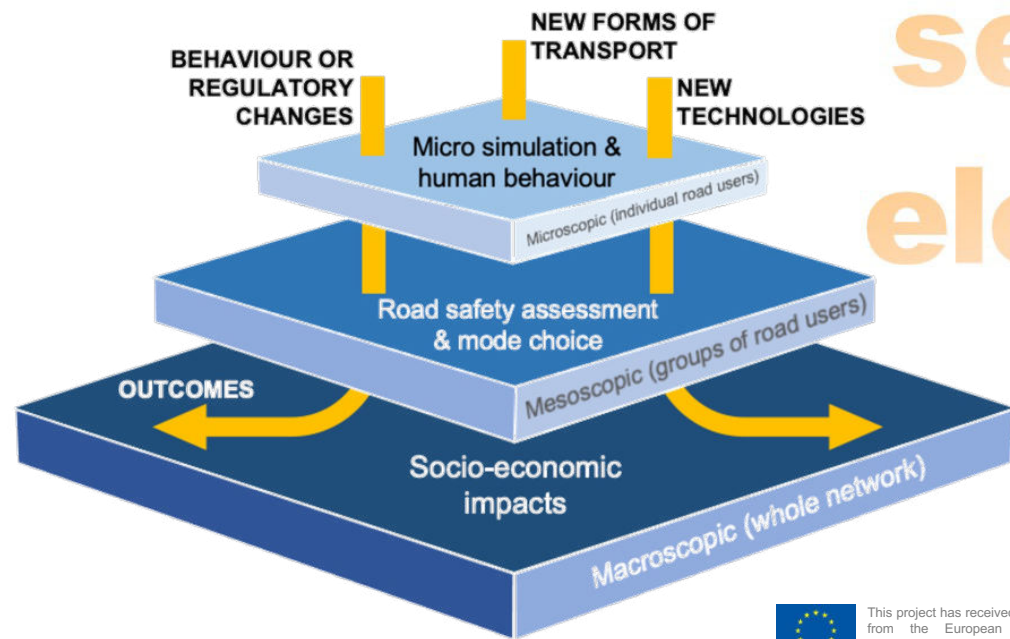
- Model development
- Speed management
- Star Rating designs
- Urban and vulnerable road user safety
- Big data
- AiRAP
- CAV ready roads
- Safe system



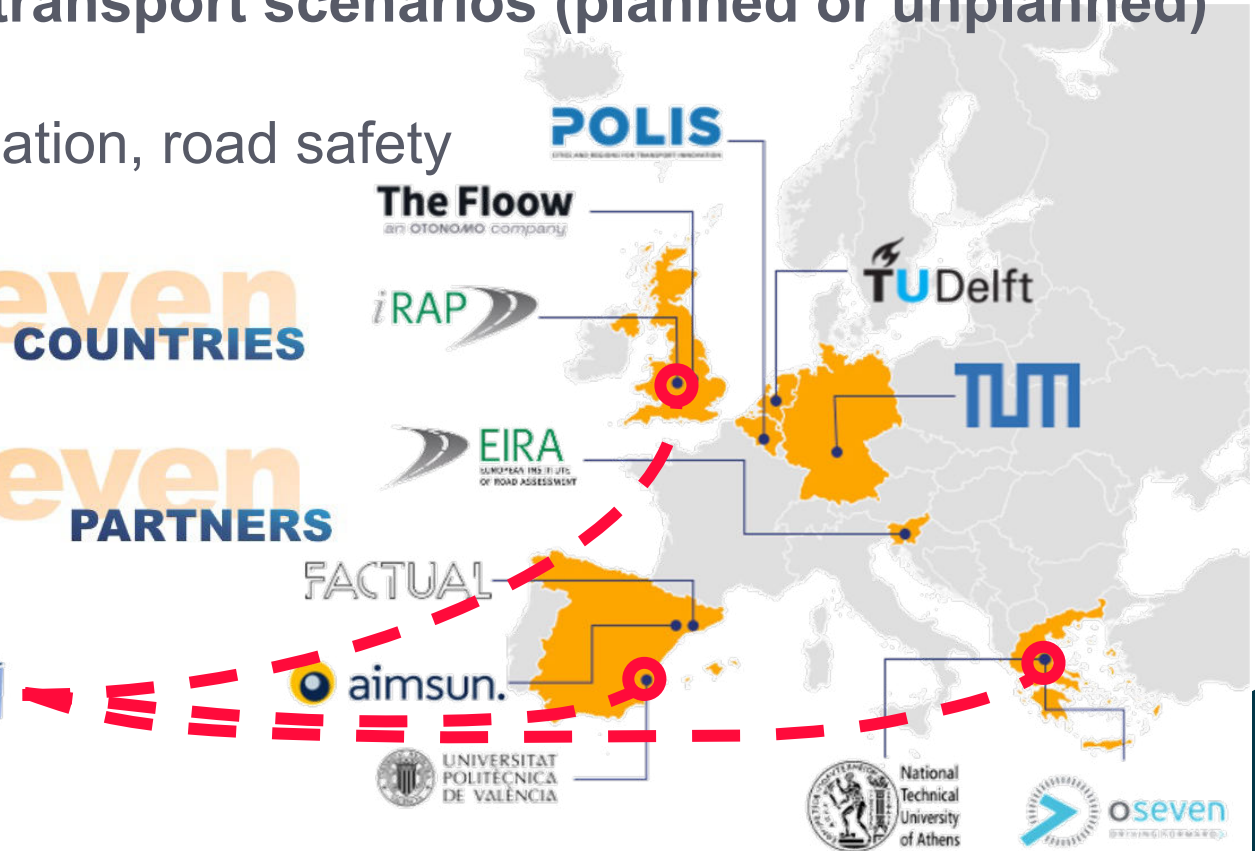


**AIM:** To create a blueprint for cities on how to understand the safety and socioeconomic impacts from future transport scenarios (planned or unplanned)

- Draws together the latest traffic simulation, road safety assessment and data technologies



seven  
eleven  
COUNTRIES  
PARTNERS



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# STAR RATING FOR SCHOOLS



**55**  
Countries



**1,229**  
Schools



**402**  
Upgrades



**5,516**  
Partners  
trained



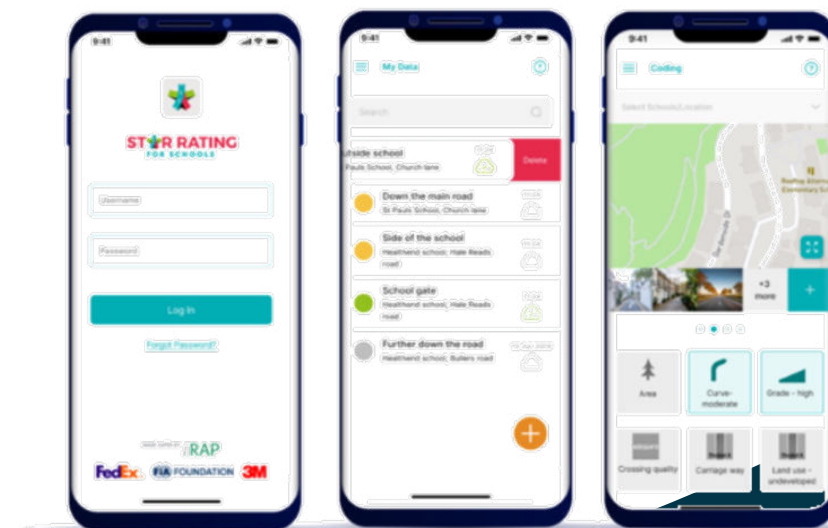
**USD 4.3m**  
Invested



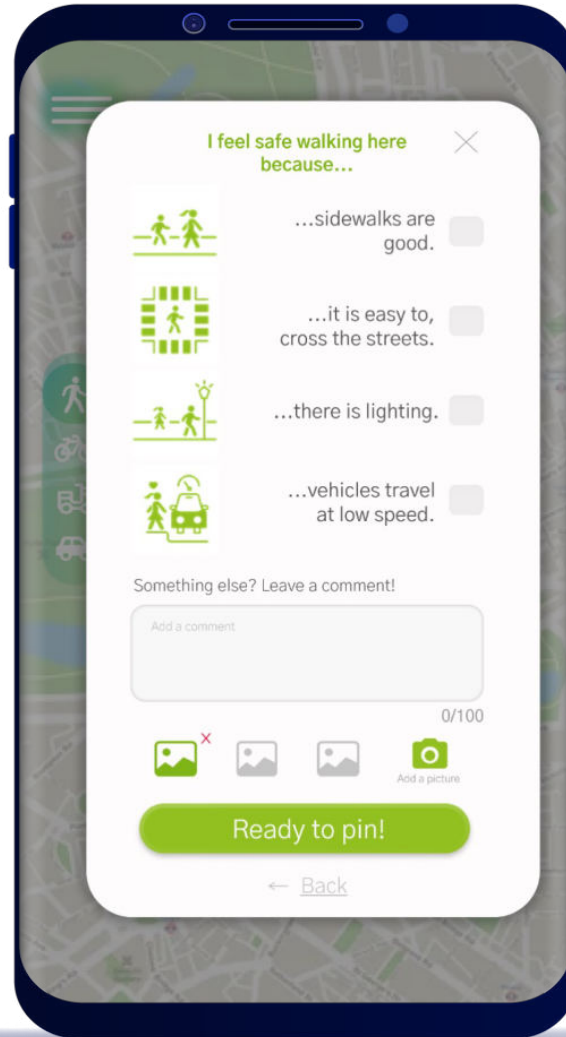
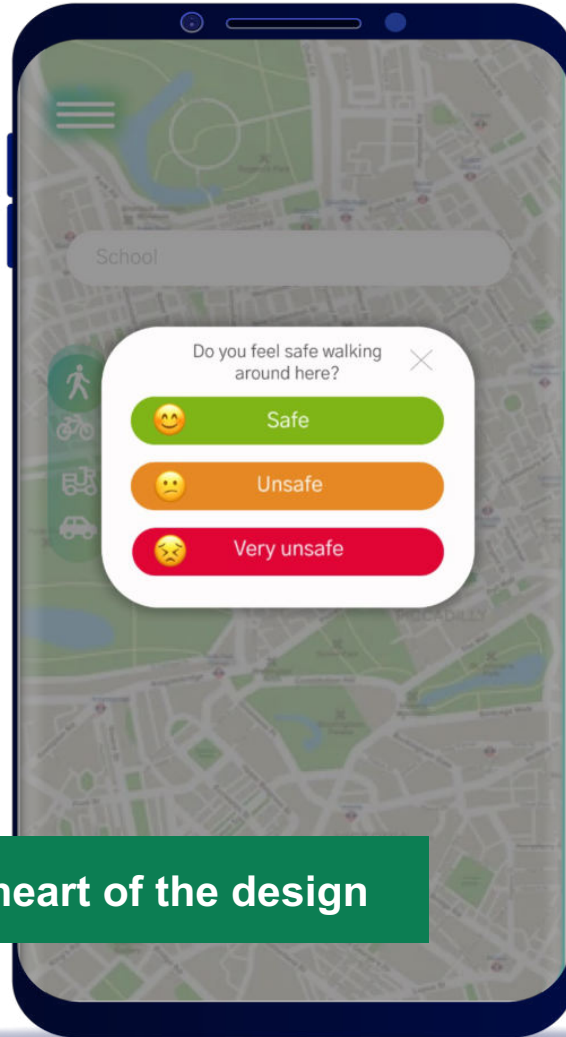
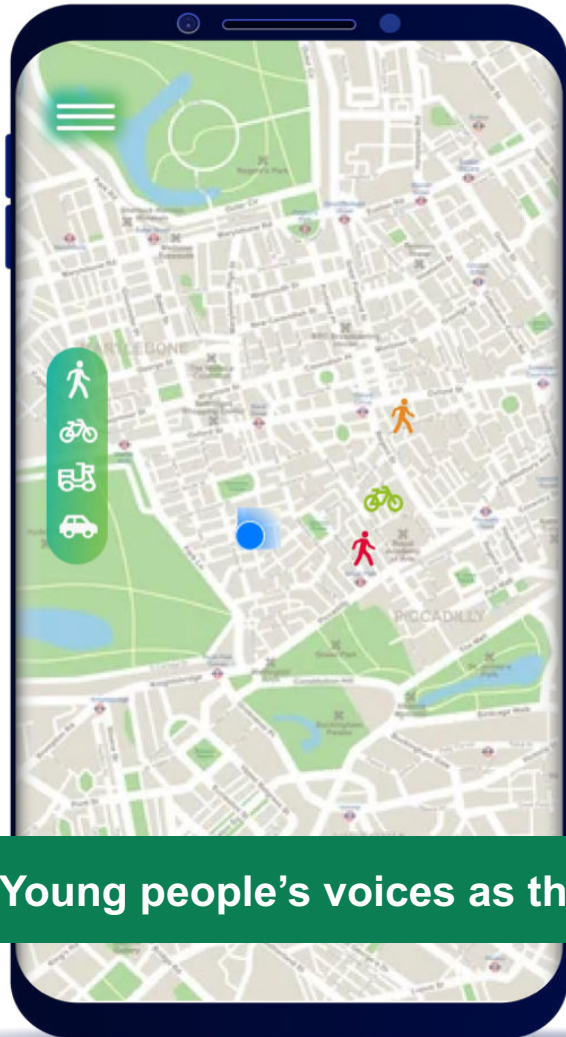
**390,593**  
Students  
impacted



**226**  
Jobs created







Young people's voices as the heart of the design

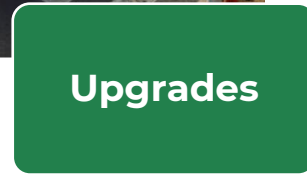
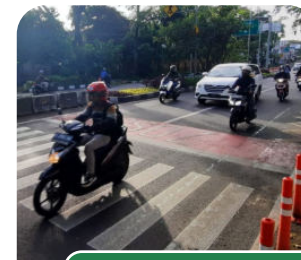
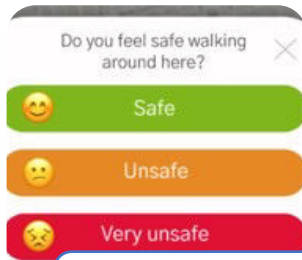
AI FOR THE GLOBAL GOALS

Let's build a better,  
more sustainable future for all

Google.org



Screening every  
school in  
Vietnam



<https://globalgoals.withgoogle.com/globalgoals>



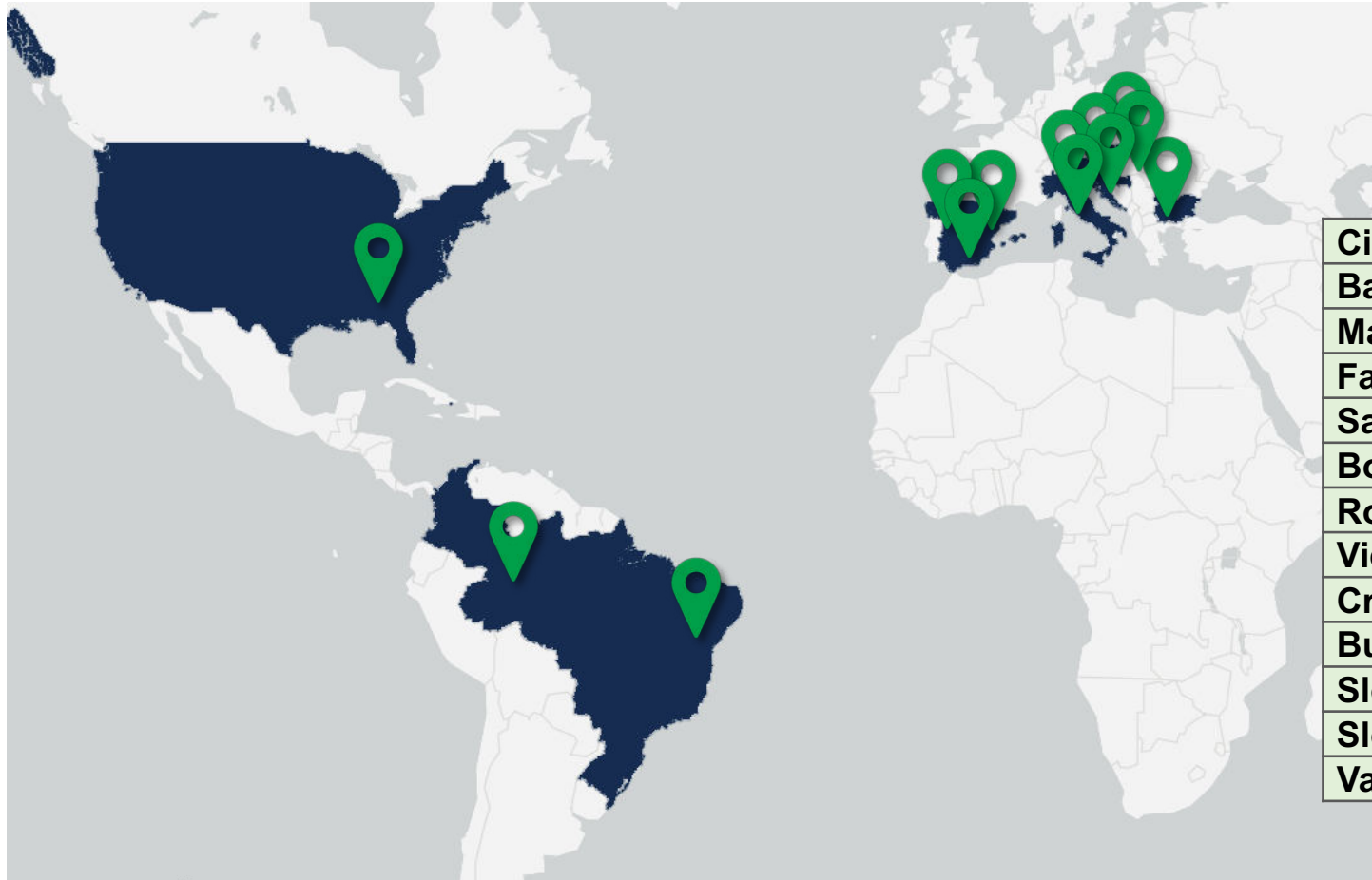
For a world free of high risk roads





# cycleraap

- 10 countries
- ~1000km



City	Km assessed
Barcelona	54km
Madrid	62km
Fayetteville, AK	80km
Sao Paulo	1115 locations
Bogota	50km
Rome	<1km
Vienna	267km
Croatia	248km
Bulgaria	39km
Slovenia	61km
Slovakia	59km
Valencia	-- km





ELABORATOR

# ELABORATOR

- Uses a holistic approach for planning, designing, implementing and deploying specific innovations and interventions towards safe, inclusive and sustainable urban mobility.
- 12 cities: Milan (Italy), Copenhagen (Denmark), Helsinki (Finland), Issy-les-Moulineaux (France), Zaragoza (Spain) and Trikala (Greece), Lund (Sweden), Liberec (Czech Republic), Velejne (Slovenia), Ioannina (Greece), Split (Croatia) and Krusevac (Serbia).
- +10 'Observer' cities for capacity building and training.



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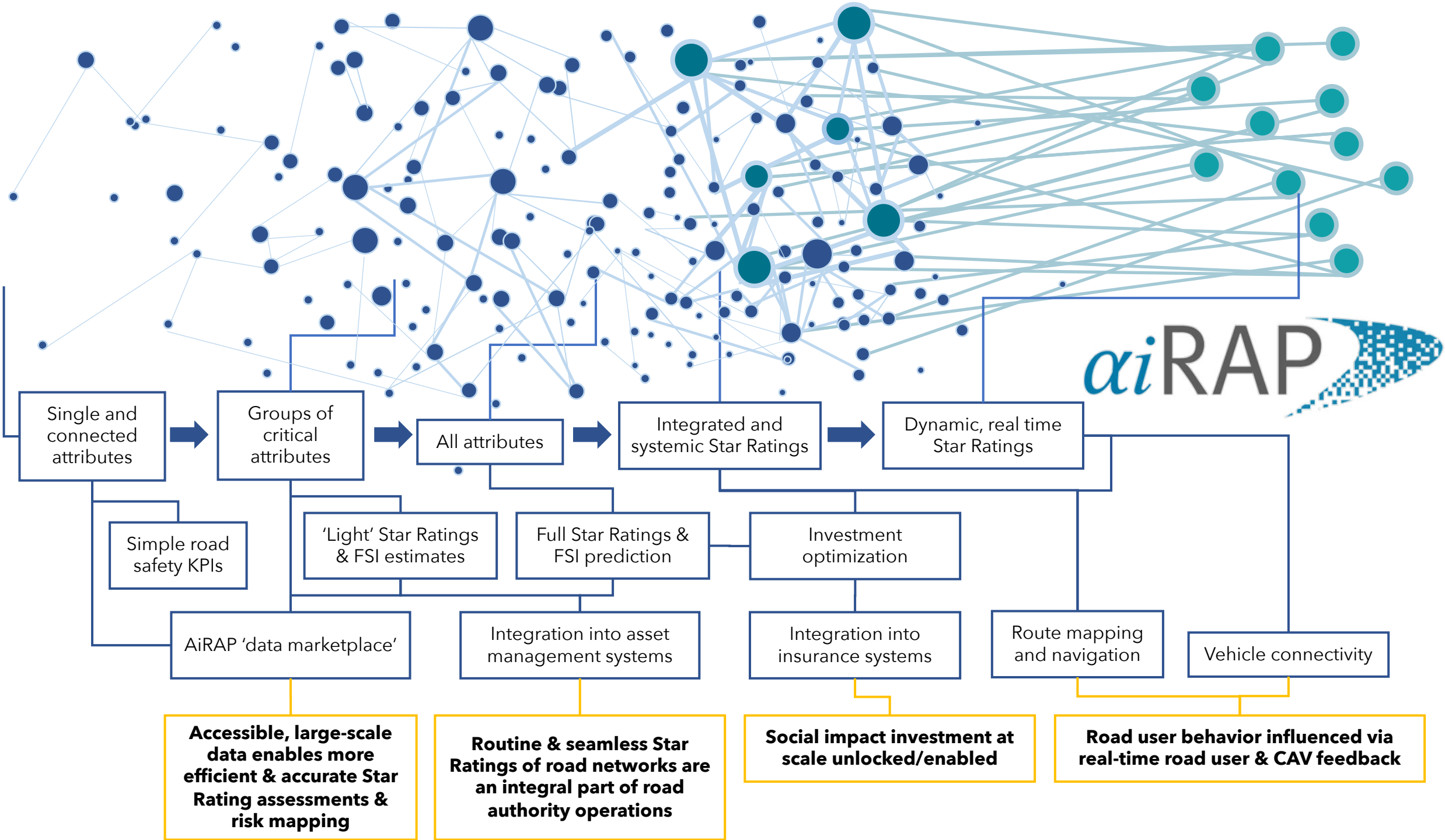




# *ai*RAP

The *accelerated* and *intelligent* collection of RAP attributes

- ✓ Telematics data: speeds, 'qualitative' attributes
- ✓ Earth Observation data: speeds, flows, intersection, curves
- ✓ LiDAR & 360 degree imagery: nearly all infrastructure feature attributes
- ✓ Satnav data (TomTom MNR): speed limit, lanes etc (6 total)





# Thanks!