





The 5G Infrastructure Association:

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Opening Thought

The true differentiator for 5G is the vertical markets.

If we fail with the verticals, we fail with 5G.





Financial Benefit of Using 5G in Vertical Markets

Verticals Benefits	Automotive (€ mn)	Healthcare (€ mn)	Transport (€ mn)	Utilities (€ mn)	Total (€ mn)	
Strategic	13,800	1,100	5,100	775	19,770	
Consumer	13,900	207	-	3,000	17,110	
Third Party	13,700	72	-	-	13,770	
Total	42,200	5,530	8,300	6,470	62,500	

Totals may not correspond due to rounding



Source: *Identification and quantification of key socio-economic data to support strategic planning for the introduction of 5G in Europe* A study prepared for the European Commission DG Communications Networks

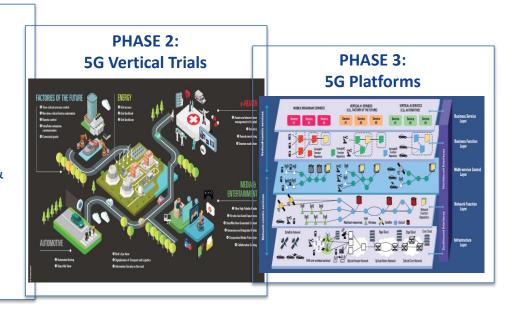


5G PPP Research Partnership



PHASE 1: 5G Core Research main achievements:

- 5G System design & Evaluation aspects
- 5G Air interface innovations
- Network management & Security innovations
- Virtualization & Service deployment innovations
- 100s of contributions to standardization



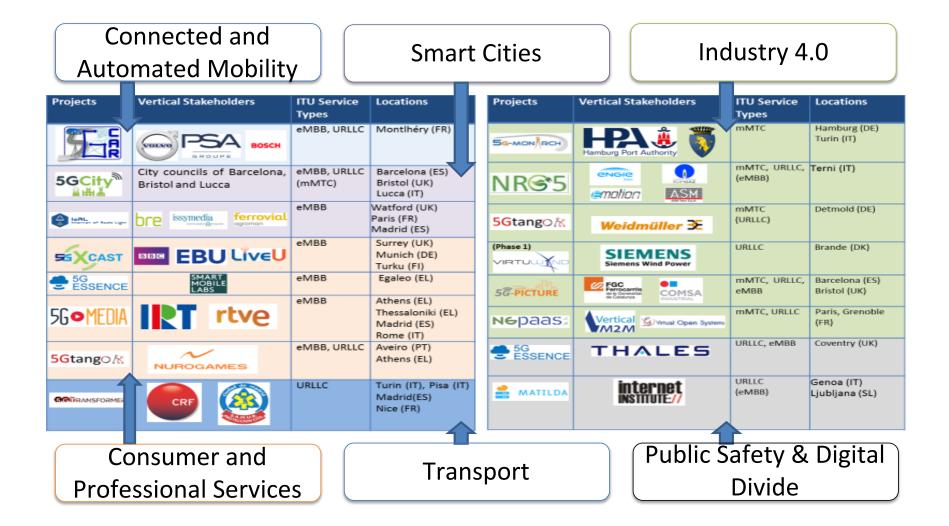
2015 2016 2017 2018 2019 2020

- 62 R&I projects since the beginning of the Program
- > 800+ contributions to standardization activities (Phase II and Phase III)
- Over 1300 scientific publications (Phase II and Phase III)
- Design, evaluated and validated multiple technological breakthroughs.



Verticals in 5G PPP Phase II







Verticals in 5G PPP Phase III



	4.0 Industry 4.0	Agriculture & agri-food	Automotive	Transport & logistics	Smart Cities & utilities	Public Safety	(III)) Smart (air)ports	EnergY	eHealth & wellness	Media & entertain.
5G EVE	√		✓		√	√		√	√	~
5GENESIS				√	√	√				~
5G VINNI	√			√		√		√		
5G!DRONES				√		√				√
5G HEART		√	√	√					√	
5GR0WTH	√			√				√		
5G SMART	√			abla T		17				
5G SOLUTIONS	√				√		√	√		√
5G TOURS				√	V		√		√	√
5G VICTORI	√			√				√		√

- Many SMEs present in vertical markets such as media, transportation, energy, smart cities, and public safety.
- With the Phase 3 of the 5G PPP, SME success stories are appearing. So far, most success stories focus on technology advancements. much more is expected to show up in a 2-5-year time frame,.
- 5G PPP has shown capability to demonstrate feasibility for SMEs to develop and deploy 5G innovative solutions in vertical markets.
- This will hopefully allow more SMEs to follow a similar path, increasing the European market share on a global scale and strengthen the chances for European SMEs to achieve sustainable growth.





Thank you for your attention

For more information about EC 5G activities please visit https://ec.europa.eu/digital-single-market/en/policies/5G/