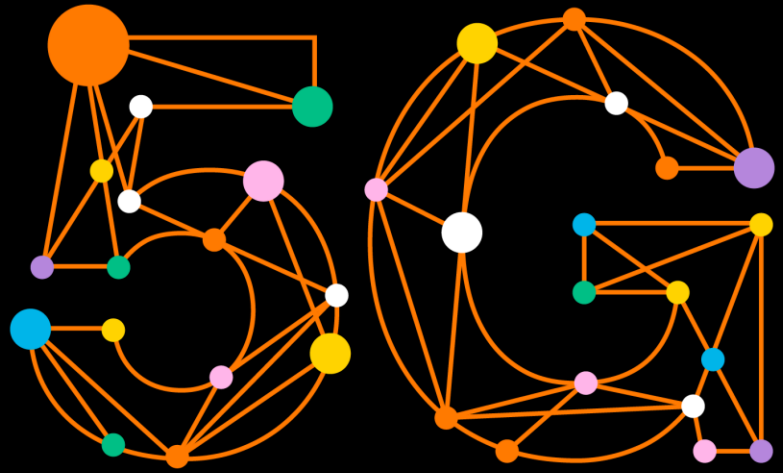
Orange 5G
transforma businessurile din Romania

Catalin Rasturnoiu

Presales and Technical Solutions Manager



orange™ Business

Impact pozitiv in economia Romaniei, pana in 2030:

€20 miliarde
vanzari facilitate de 5G

69.000
joburi facilitate de 5G

2MtCO2e
emisii eliminate datorita 5G

Impact in Europa, pana in 2030:

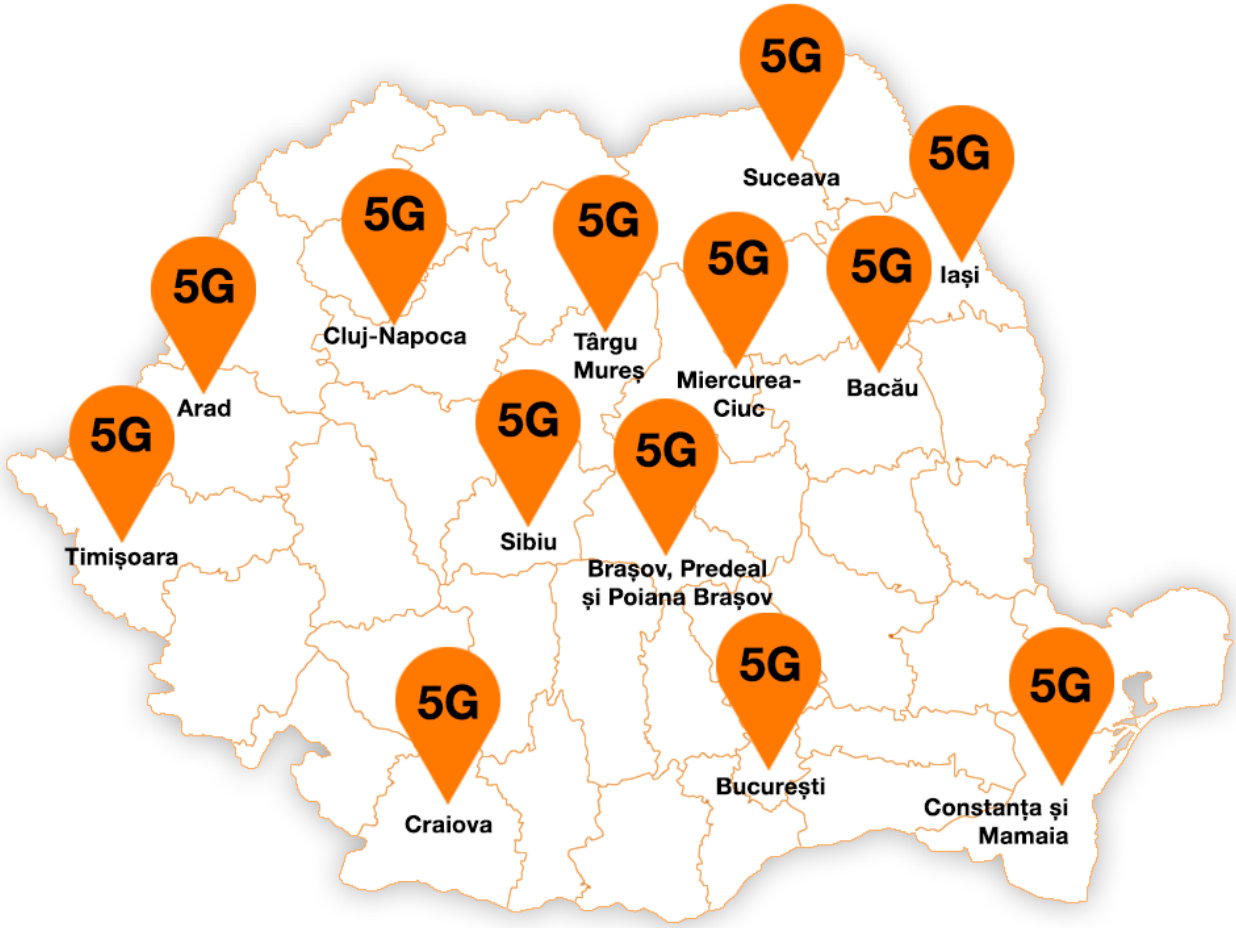
€1,5 trilioane
vanzari facilitate de 5G

3,7 millioane
joburi facilitate de 5G

68MtCO2e
emisii eliminate datorita 5G

*Studiu OMDIA 2021, comandat de Orange Group

Orange 5G, in 25 de orase. Noi lansari 5G in 2023.



Calatoria Orange 5G si drumul catre 6G

Demo-uri si teste

Demo solutie de medicina (2017), testare solutie 5G la punct fix in Cluj (2018), demouri 5G la festivalurile Untold si Summerwell (2019)

Bucuresti cu acoperire 5G 100%

Tehnologia 5G este lansata in marile orase din Romania, permitand dezvoltarea de produse si use-case-uri.

264 milioane € pentru achizitia de spectru - Orange devine operatorul cu cel mai mare portofoliu de spectru din Romania.

Orange 5G in 25 de orase

2017 | **2019** | 2020 | 2021 | 2022 | 2023

Lansare comerciala 5G

Orange lanseaza comercial 5G -prima tara din Grupul Orange

Primul 5G Lab in Bucuresti

in acelasi an, solutia **5G la punct fix** (5G FWA) devine disponibila clientilor Orange Business Services

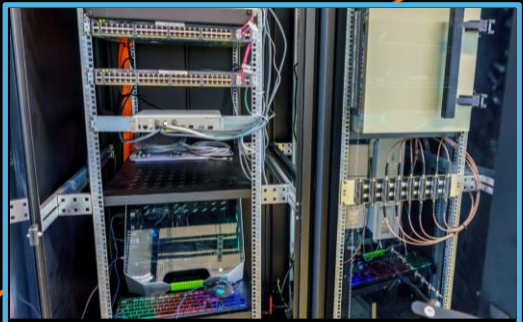
Al doilea 5G Lab in Iasi si drumul spre 6G

Orange contribuie in 6 proiecte Horizon Europe pentru dezvoltarea 5G si standardizarea 6G.

Research & Development Orange in 5G

Orange 5G Labs - includ tehnologii care vor fi disponibile comercial in viitor, dar acum pot fi testate doar in laborator.

Proiecte pilot dezvoltate cu partenerii academici si de business folosind tehnologia 5G de laborator.



Proiecte europene – Orange Romania este implicata in proiecte Horizon Europe pentru dezvoltarea si standardizarea 5G si 6G.

Verticale 5G in proiecte implementate de Grupul Orange

Fabrica viitorului

Augmented team cu AR

5G pentru proiecte de mobilitate

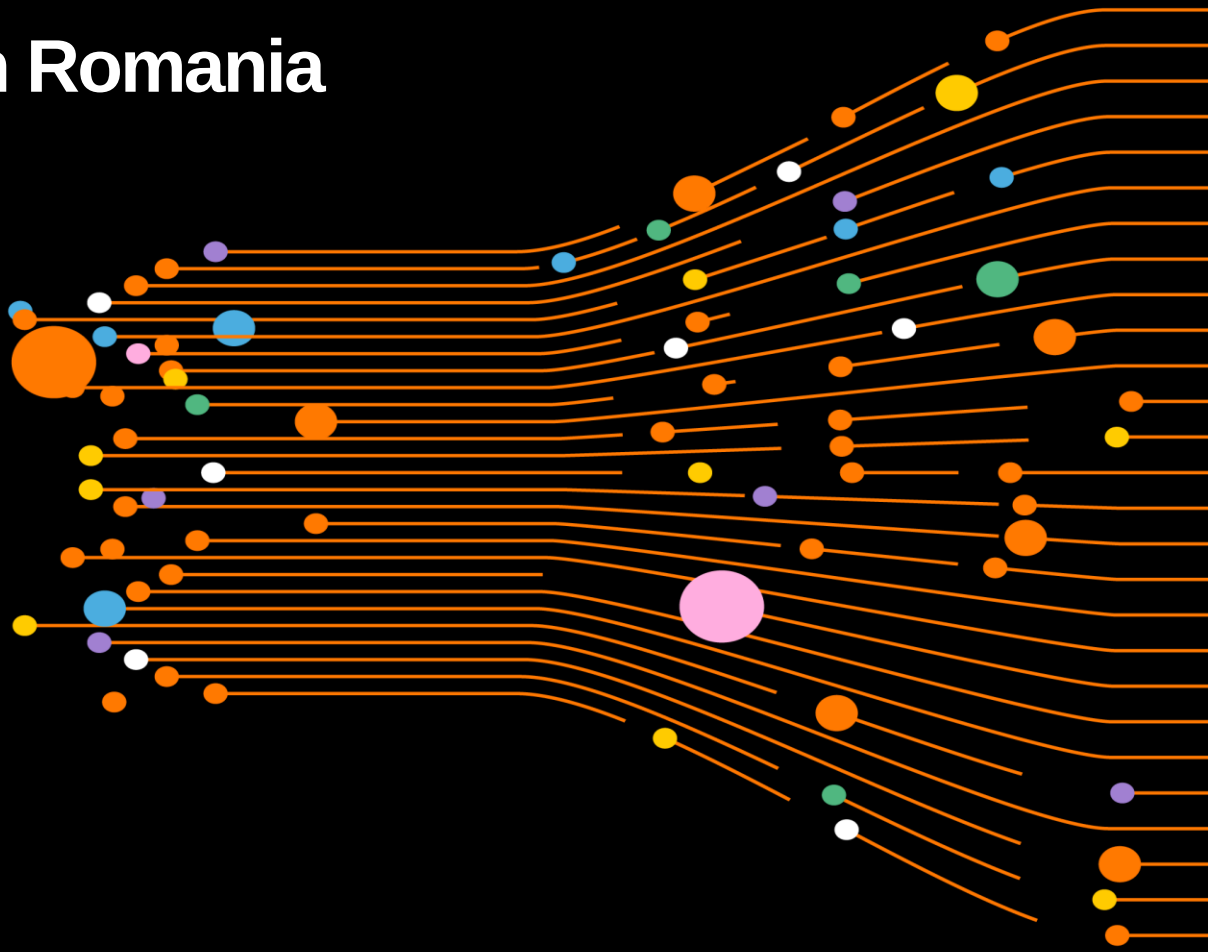
Port inteligent

Viteze ultra-rapide

Experiente sportive imbunatatite

Proiecte 5G

Orange Business in Romania



Port inteligent Portul Galati - Navrom

- Sistem de senzori IoT (GPS, umiditate, fum etc.).
- Camere video instalate in port si pe vase.
- Gestionarea fluxului de date via **Orange 5G** pentru asistarea vaselor in conditii de vreme nefavorabila.

Operare portuara mai sigura si mai multa securitate in navigatie, datorita unei conexiuni private Orange 5G

Proiectul a primit finantare prin programul UE Horizon 2020's de research si inovatie sub Grant Agreement No. 101016567.

Live Broadcast via 5G
Media

Echipamente portabile de transmisiune si conectivitate **Orange 5G** cu banda garantata

Viteze comparabile cu cele ale fibrei optice, latenta scazuta si capacitatea de a gestiona latimea de banda acordata unui utilizator.

Simplificare fara compromisuri in calitatea video chiar si in spatii aglomerate (stadioane, sosele).

Mobilitate si logistica redusa**,** datorita echipamentelor portabile.

Solutii Vehicle to Everything (C-V2X)

BOSCH

Comunicatia C-V2X bazata pe 5G faciliteaza transmisia rapida a datelor de la vehicule (senzori, camere video) catre un server central sau catre o infrastructura cloud.

Functii precum franarea automata de urgenta, mentinerea benzii de rulare sau parcarea automata pot salva vieti si imbunatatesc confortul in timpul condusului.

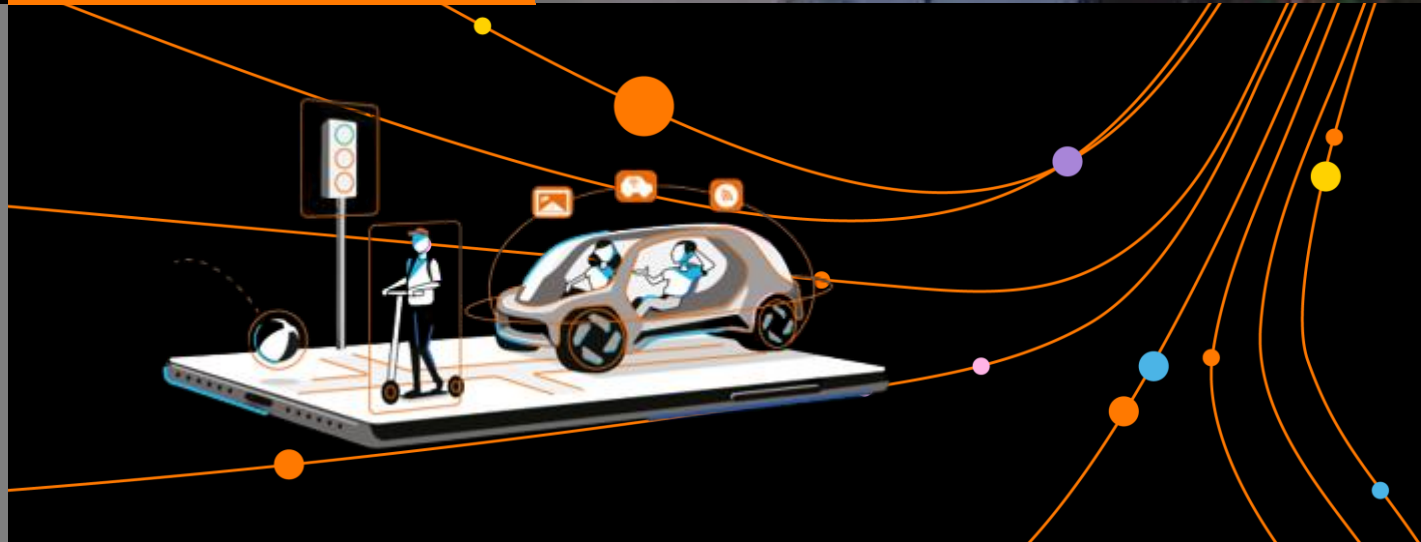
Safe connected intersection Continental

Solutia combina:

- prelucrarea imaginilor video asistata de AI cu
- beneficiile aduse de conexiunea la **Orange 5G** si
- o solutie de tip edge-computing.

Creste siguranta, contribuie la reducerea congestiilor si a poluarii in intersectii

Faciliteaza condusul automatizat prin detectarea participantilor la trafic.



Augmented Team Raja Constanta

Aplicatie de asistenta remote, care combina AR si transmisiunea video in timp real pentru a conecta mai multe persoane simultan.

Infrastructura **Orange 5G** asigura o calitate buna a fluxurilor video prin latente mici si viteze mari.

Angajatii au acces simultan in mai multe puncte de lucru rezultand:

- interventii mai rapide
- reduceri de costuri operationale (ex: economii de energie)

5G Lab
Iasi si
Bucuresti

5glab.orange.ro

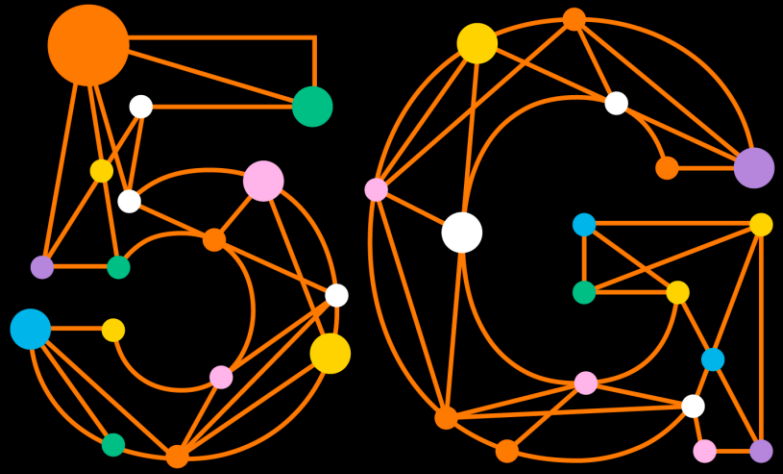
5G & dispozitivele necesare

Catalin Rasturnoiu

Presales and Technical Solutions Manager

Ovidiu Secelanu

Head of B2B MX Division, Samsung



SAMSUNG

Galaxy Rugged Series

XCover | Tab Active

* Availability may vary by region

SAMSUNG

Strong and Reliable

SAMSUNG

Tried and tested

IP68

Ingress Protection rated

- Dust resistant.
- Water-resistant up to 1.5m underwater*

MIL STD 810G/H

Passed military standard testing

- Meets the highest standard of endurance
- Altitude, humidity, immersion, salt, fog, dust, vibration, drop tested etc.

Anti-shock

1.2m drop proof, with protective cover

- Withstands accidental drops.

* For 30 minutes

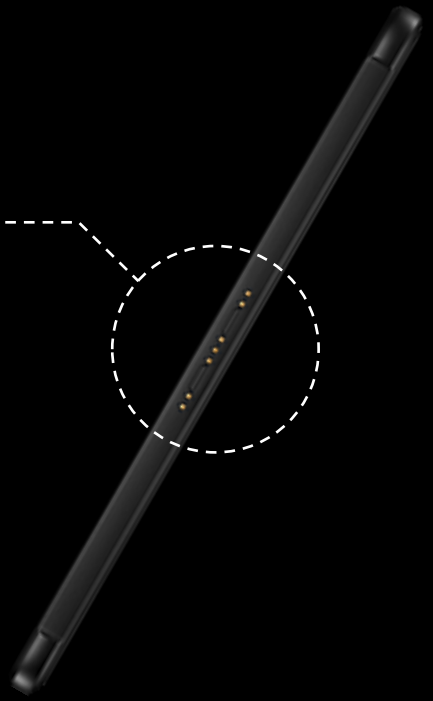
The perfect fit

Pogo pins on the side of the tablet enable convenient charging, offering high durability for docking a device or multiple units and transfer datas.

2 Pin POGO charging dock

Multi Device Charger

Pogo pin



POGO charging dock sold separately (except for Xcover FIeldPro)
POGO charging compatibility : Xcover FieldPro, Xcover Pro, Tab Active Pro, Tab Active 2
POGO Data transfer compatibility : Tab Active Pro, Tab Active 2

SAMSUNG

Long lasting, powerful experience

To make workers more autonomous, Samsung offers a ruggedized line-up with replaceable batteries. That means when it’s time to replace the original battery, they don’t have to get a new device, saving them money and time.

Rugged	Device	Capacity	Video play	Removable
Smart Phone	XCover6 Pro	4,050mAh	13 hr	Yes
	XCover 5	2,8000mAh	13 hr	Yes
Tablet	Tab Active 4 Pro	7,600mAh	15 hr	Yes
	Tab Active 3	4,450mAh	11 hr	Yes

- Charging Algorism: Battery safe algorism to prevent overcharging
- Direct Power: 3rd party option
- Note: Not designed for automotive operating temp. Don’t recommend leaving devices in extreme temp (i.e. in car)

Extra battery sold separately

Samsung DeX Capability

SAMSUNG

SAMSUNG DeX

Make any space a work space with DeX mobile desktop*

DeX provides access all your favourite business apps

Multitask like never before with DeX
dual mode

[illegible] working in DeX mode.

***Only available on Galaxy Tab Active Pro and Tab Active 3**

SAMSUNG

Samsung Knox for Frontline Workers