

The logo features the text '5G & CO.' in a white, stylized font. The '5G' is significantly larger than '& CO.'. The background is a collage of blue-toned images: a hand holding a pen over a document, a hand typing on a laptop keyboard, a modern car, a crowd of people, and a modern living room interior. White circuit board patterns are overlaid on the entire image.

# 5G & CO.

6<sup>a</sup> EDIZIONE

EVERYTHING  
IS CONNECTED

16-17 APRILE 2024

ROMA, PALAZZO DELLE ESPOSIZIONI

PROMOSSO DA 

## RELATORE

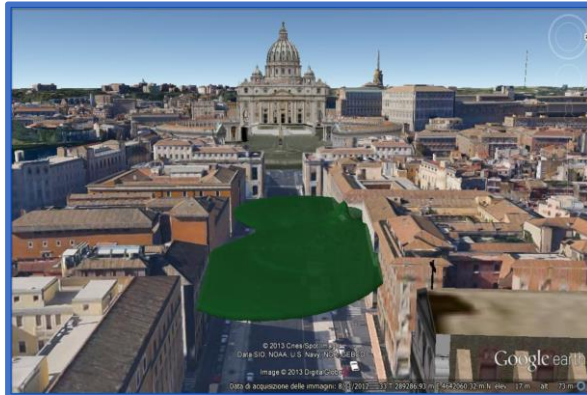
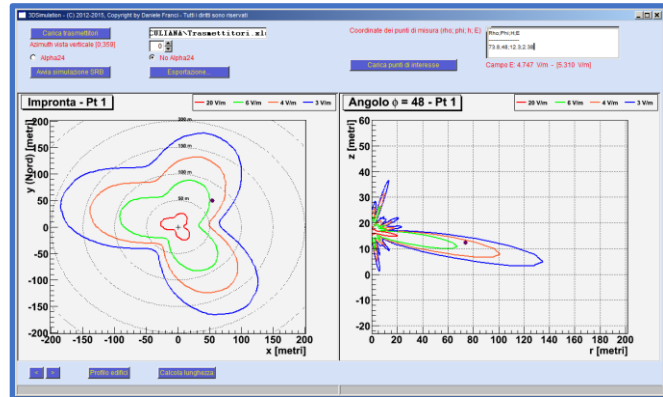


**Daniele Franci**  
**Settimio Pavoncello**

*Ingegneri TLC, ARPA Lazio*

## IL COMPITO ISTITUZIONALE DI ARPA LAZIO

*Protezione della popolazione dalle esposizioni a campi elettrici, magnetici ed elettromagnetici*

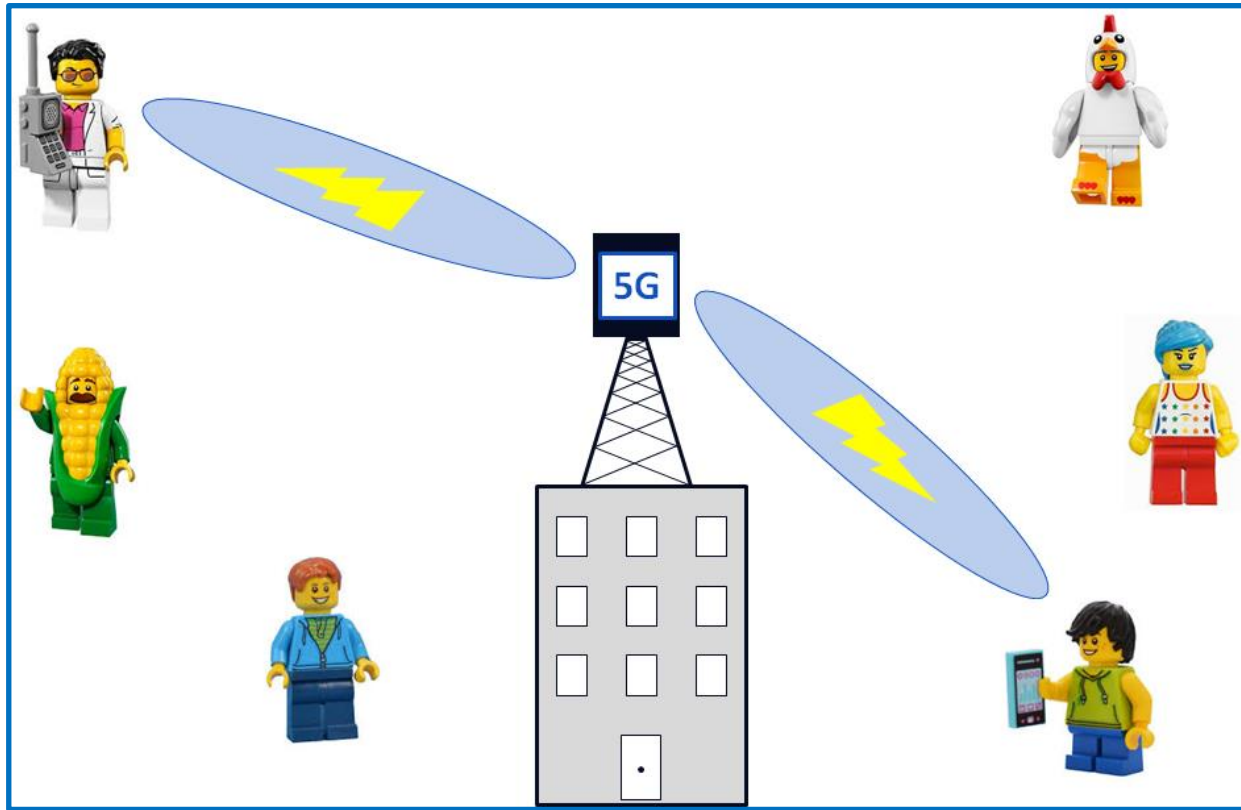
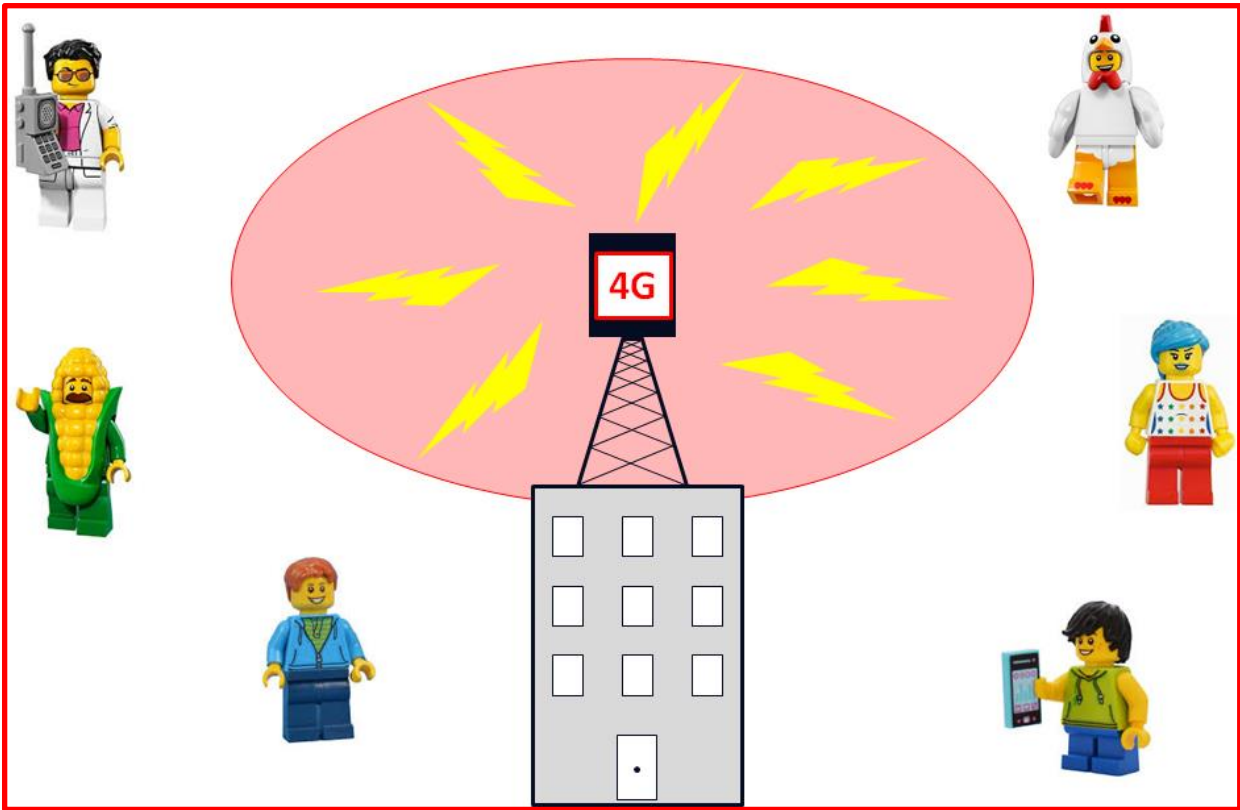


**PARERI TECNICI PREVENTIVI**

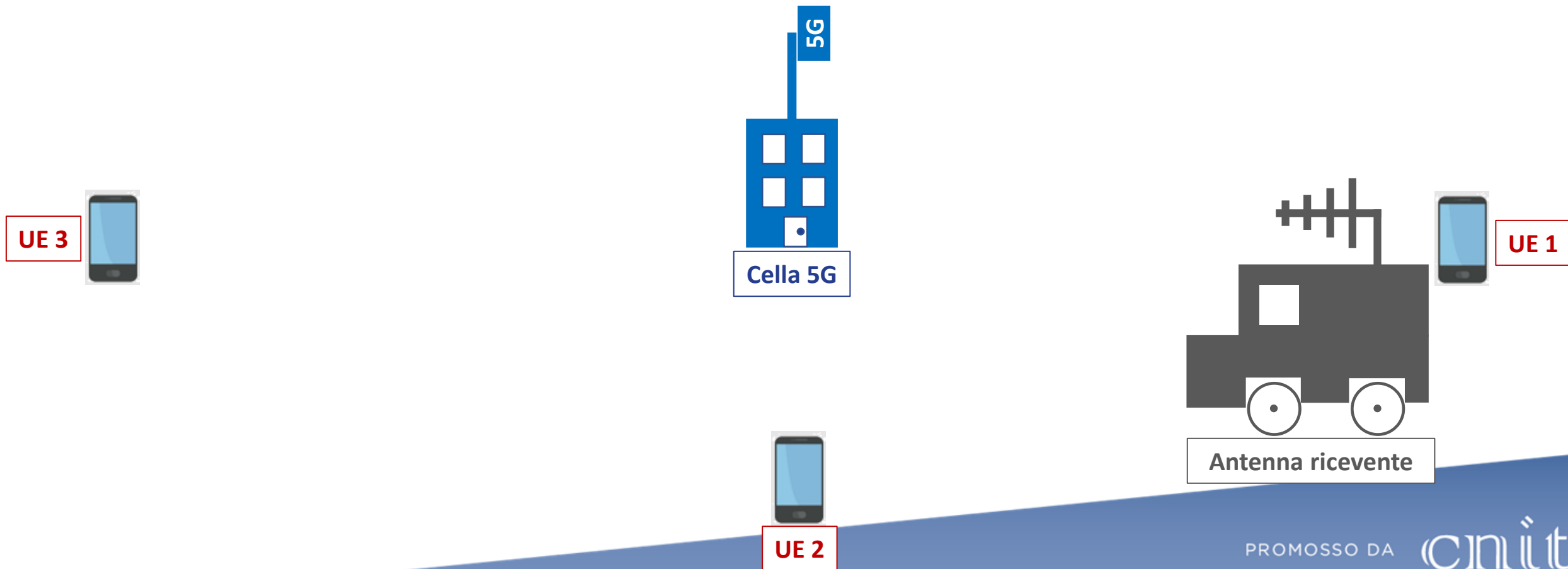
**VIGILANZA E CONTROLLO**

**TECNOLOGIA 4G**

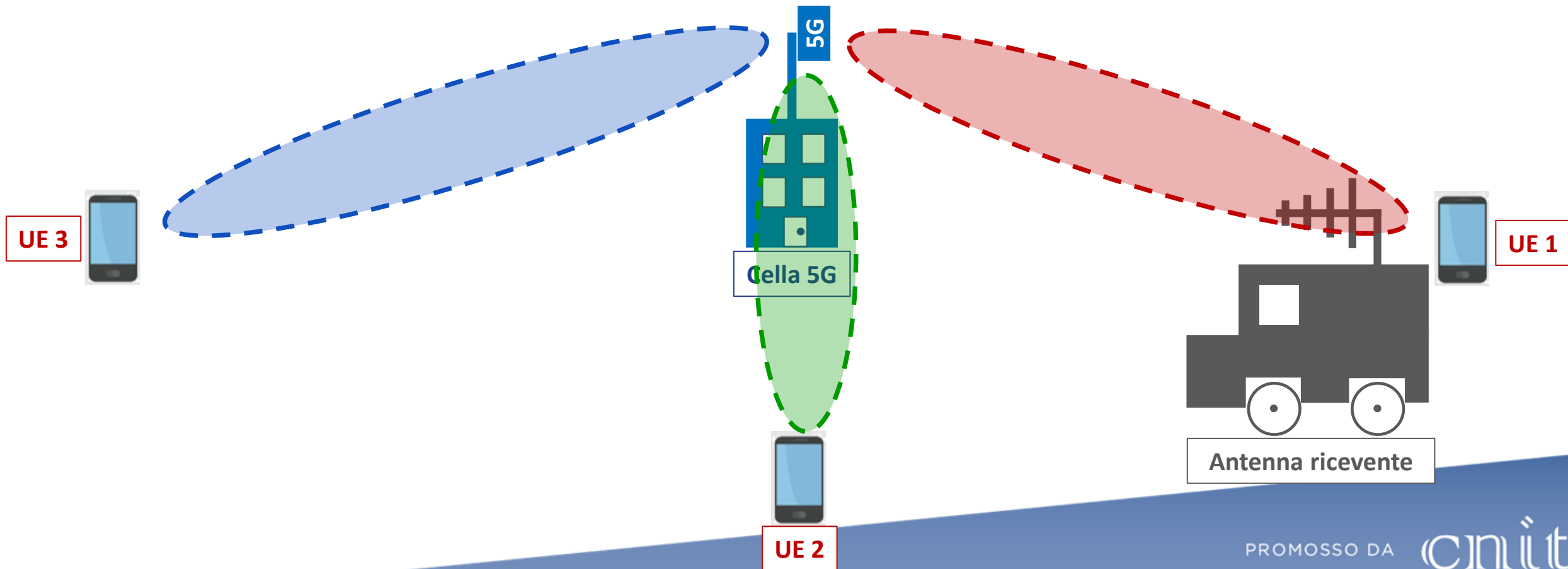
**TECNOLOGIA 5G**



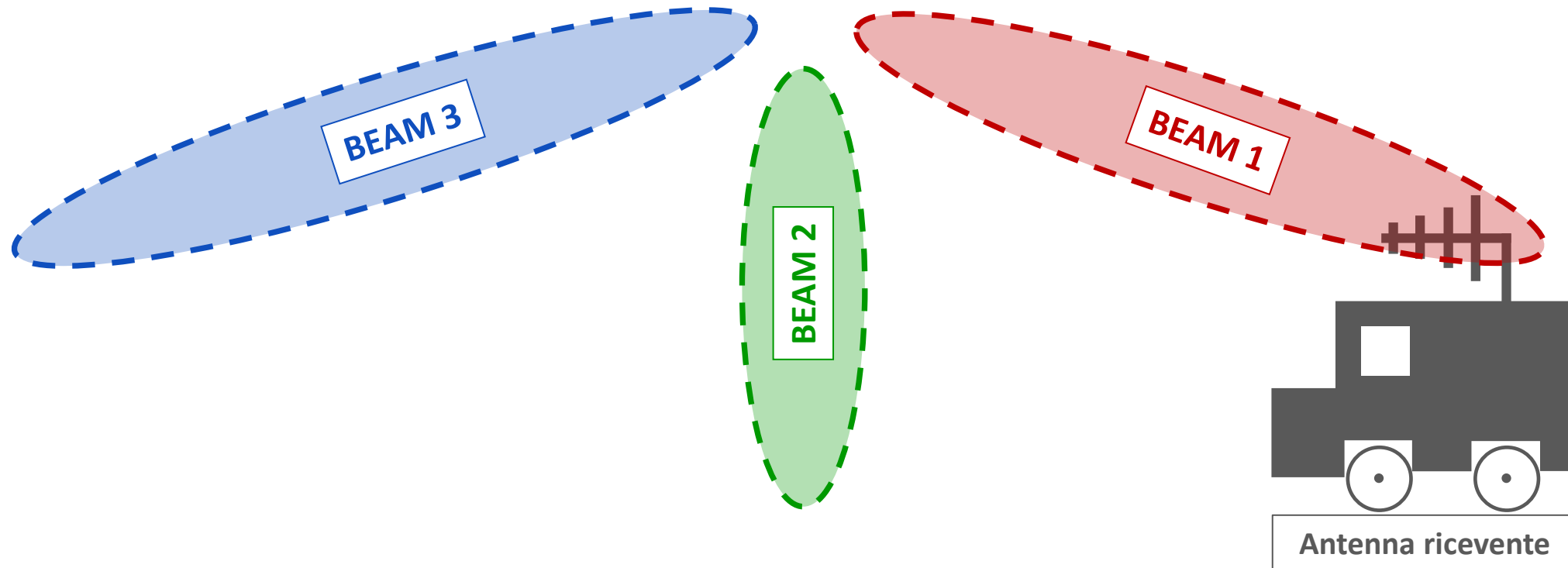
## VALUTAZIONE DELL'ESPOSIZIONE – FORZATURA DEL TRAFFICO DATI



## VALUTAZIONE DELL'ESPOSIZIONE – FORZATURA DEL TRAFFICO DATI



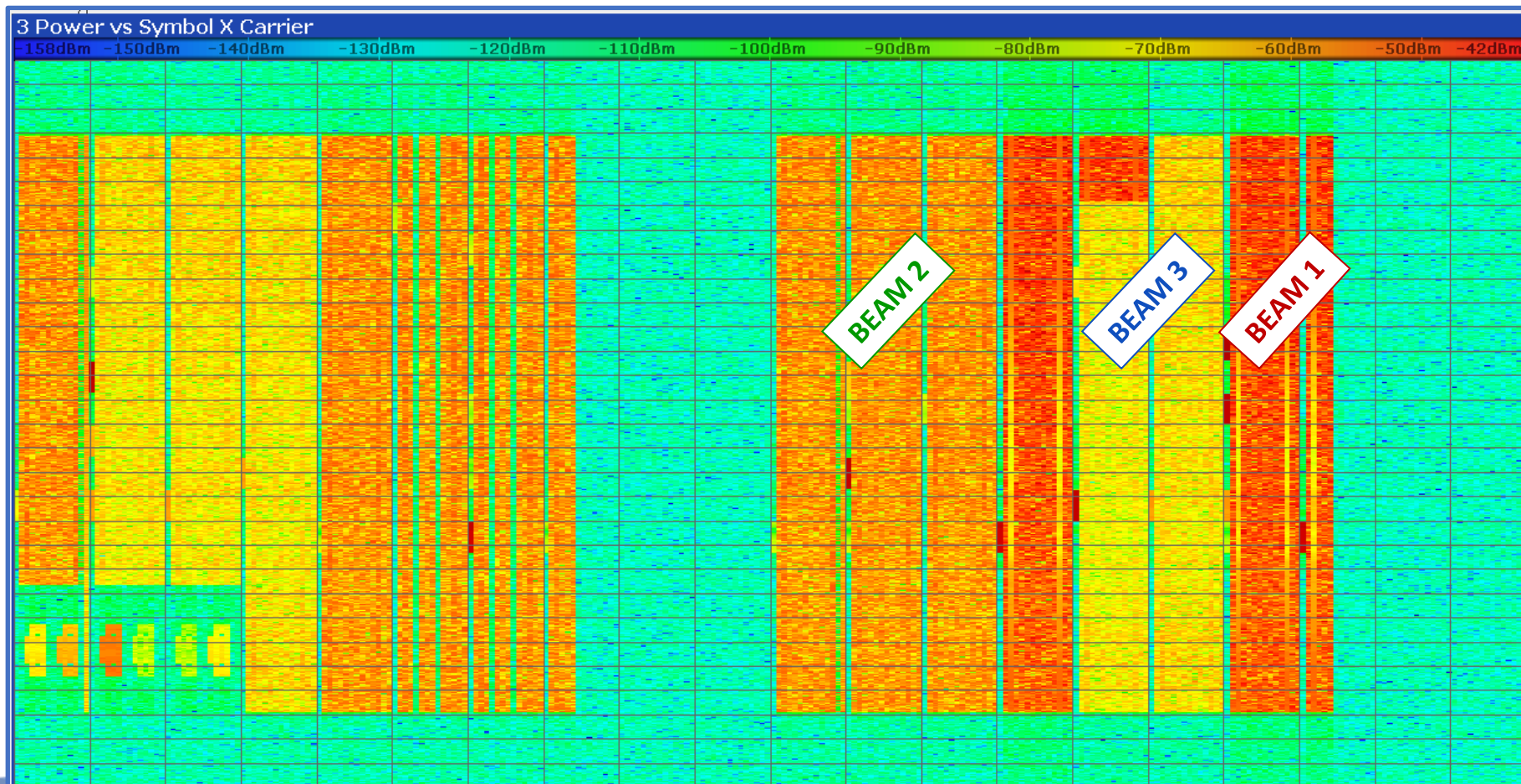
## VALUTAZIONE DELL'ESPOSIZIONE – FORZATURA DEL TRAFFICO DATI



## MISURA DEL SEGNALE 5G IN CONDIZIONI DI SATURAZIONE DEL FRAME



## MISURA DEL SEGNALE 5G IN CONDIZIONI DI SATURAZIONE DEL FRAME



## PRODUZIONE SCIENTIFICA

**IEEE Access**

Multidisciplinary | Rapid Review | Open Access Journal

Received August 16, 2020, accepted September 4, 2020, date of publication September 18, 2020,  
date of current version September 30, 2020.

Digital Object Identifier 10.1109/ACCESS.2020.3024764

### A Methodology to Characterize Power Control Systems for Limiting Exposure to Electromagnetic Fields Generated by Massive MIMO Antennas

SARA ADDA<sup>1</sup>, TOMMASO AURELI<sup>2</sup>, STEFANO COLTELLACCI<sup>2</sup>, STEFANO D'ELIA<sup>3</sup>, DANIELE FRANCI<sup>2</sup>, ENRICO GRILLO<sup>2</sup>, NICOLA PASQUINO<sup>4</sup>, (Senior Member, IEEE), SETTIMIO PAVONCELLO<sup>2</sup>, RICCARDO SUMAN<sup>3</sup>, AND MATTIA VACCARONO<sup>1</sup>

**IEEE Access**

Multidisciplinary | Rapid Review | Open Access Journal

Received November 19, 2021, accepted January 15, 2022, date of publication January 21, 2022, date of current version February 3, 2022.

Digital Object Identifier 10.1109/ACCESS.2022.3145674

### Methodology Based on Vector and Scalar Measurement of Traffic Channel Power Levels to Assess Maximum Exposure to Electromagnetic Radiation Generated by 5G NR Systems

SARA ADDA<sup>1</sup>, TOMMASO AURELI<sup>2</sup>, SERGIO BASTONERO<sup>3</sup>, STEFANO D'ELIA<sup>4</sup>, DANIELE FRANCI<sup>2</sup>, ENRICO GRILLO<sup>2</sup>, MARCO DONALD MIGLIORE<sup>5,6</sup>, (Senior Member, IEEE), NICOLA PASQUINO<sup>7</sup>, (Senior Member, IEEE), SETTIMIO PAVONCELLO<sup>2</sup>, FULVIO SCETTINO<sup>5,6</sup>, (Senior Member, IEEE), ANDREA SCHIAVONI<sup>3</sup>, (Member, IEEE), RENATO SCOTTI<sup>3</sup>, RICCARDO SUMAN<sup>4</sup>, AND MATTIA VACCARONO<sup>1</sup>

Lavori nella bibliografia dello standard IEC 62232:2022