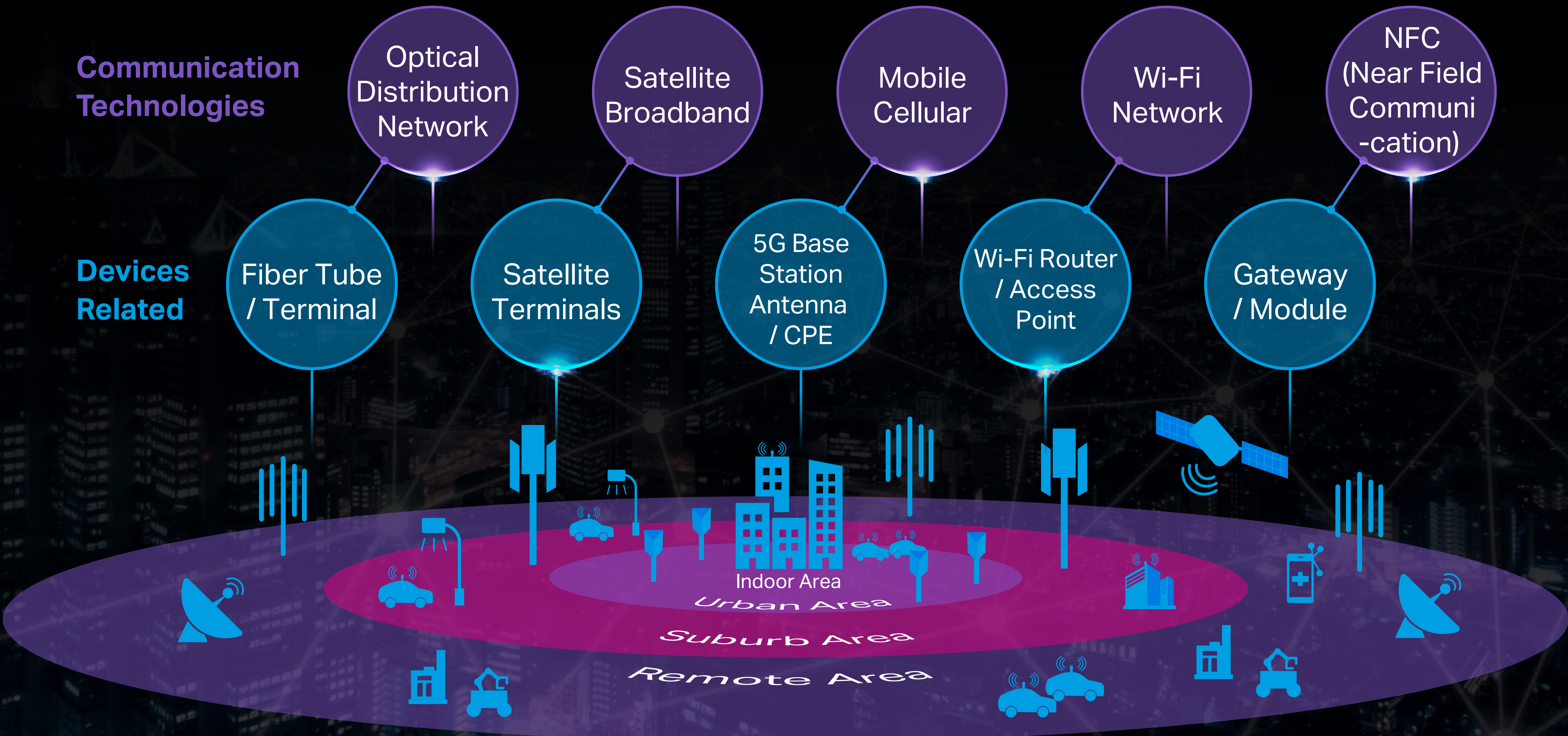




# **Covestro Innovative Total Solutions for Network Devices**

# Full range of intelligently connected networks driven by diverse and evolving communication technologies



# Industry Trend and Challenges Require Innovative Total Solutions



## Heat Management

Thermal Conductive  
/ High Heat Resistance



## Light Weight

Foaming Solution  
/ Thin-wall Design



## Signal Transmittance

Radio Frequency Expertise  
/ Radome Design Guidance



## Harsh Outdoor Environment

Weatherability / High  
Reliability & Durability



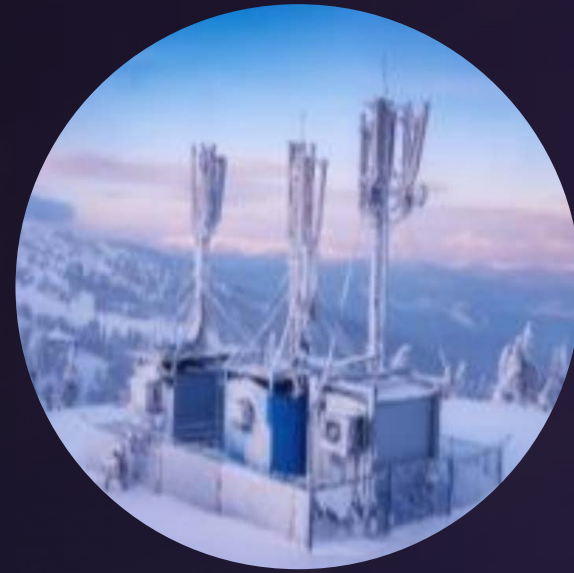
## Circular Economy

Significant reduction of  
Wastes and  
CO<sub>2</sub> emission

# Covestro Total Solutions for Network Devices

Achieve high performance in functionality, safety and circular economy, for today and tomorrow.

## Material Offering



### Outdoor

Protect the devices with high reliability and durability in harsh outdoor environment



### Indoor

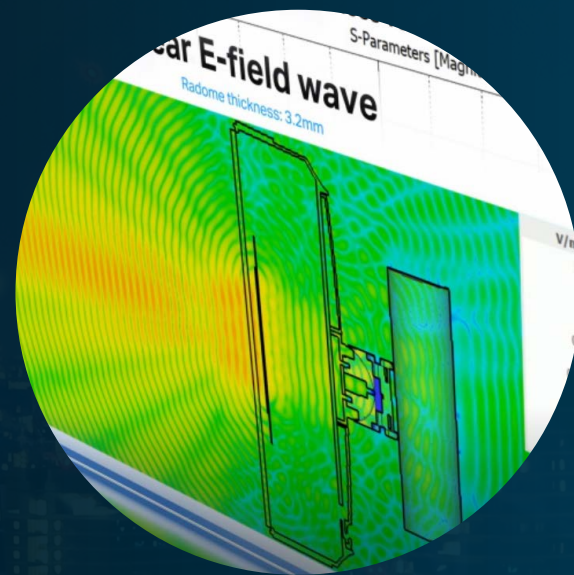
Thermal conductive and low smoke density solutions to meet high safety needs



### Circular Economy

Diverse sustainable solutions to significantly reduce wastes and CO<sub>2</sub> emission

## Technology Offering



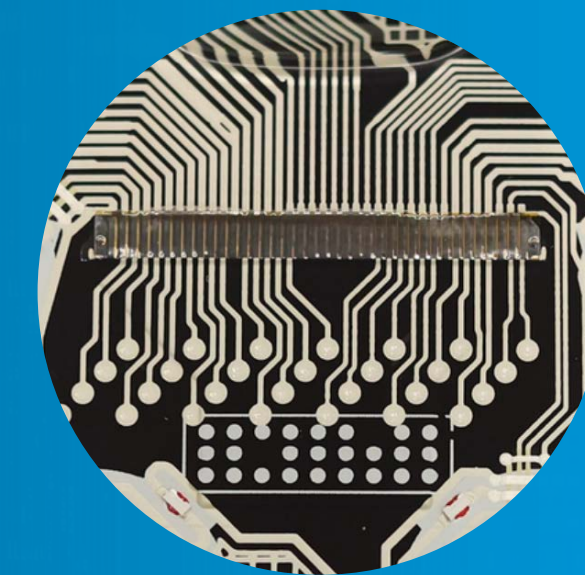
### Radio Frequency Expertise

In-house RF testing and simulation capabilities



### Design Guidance

Part and mold design guidance to achieve high production efficiencies



### New Technology

Foaming, Electronics Integration...



# 5G mm Wave Small Cell Covestro x Baicells

As the millimeter wave base station housing material, Covestro outdoor low-temperature solution helps Baicells build the world's smallest 5G millimeter wave base station product. Withstand the harsh outdoor environment and provide high reliable and durable performance.

**"Covestro is a partner worthy of extensive, long-term cooperation. We are impressed by their R&D capabilities and innovative spirit and look forward to more opportunities to work with Covestro closely in the future. Together with Covestro, Baicells hopes to deliver more innovative products and services to clients in the global communications industry."**

**Baicells Innovation Director  
Mr. Yun Xiang**



Stable dielectric performance in a wide range of high and low frequency bands, reduce signal loss and achieve stable signal transmissions, even at millimeter wave band.



Excellent impact resistance, under high & low temperatures, and UV rays. Withstand the rigorous test of  $-40\text{C}^{\circ}$  to  $+85\text{C}^{\circ}$  for 400 cycles.



Renewable-attributed solution available as drop-in solution to significantly reduce carbon footprint while maintaining the identical properties as fossil-based solutions.

# Next Generation Fixed-line Network Devices Covestro x Deutsche Telekom

Covestro renewable-attributed solution supports Deutsche Telekom's Sustainability Goal.

"Reducing emissions for plastic parts is an attractive goal for us. We have a requirement in place to avoid the use of fossil carbon. Makrolon® RE is a first-class solution to meet our sustainability goals. I am pleased that our sustainable approach in the supply chain has met a fertile ground at Covestro."

Group Partnering & Devices, Deutsche Telekom  
Dr. Steffen Wasmus



Differentiate the network products in the market with value-added green label



Build the global leading position in terms of sustainability in Telecom industry



Unique solution with high performance of infrared optics while achieving significant low carbon footprint



# We empower your success with differentiated total solutions and customized values

Strong outdoor and indoor material portfolio to achieve high performance of reliability and durability in the diverse network using environment



Value-added technical solution including Radio Frequency Know-How, Part and Mold design guidance along the application development circle, to achieve high production efficiency and good signal transmittance



Full range sustainable solution including mechanical recycling, renewable-attributed, chemical recycling to differentiate your products and achieve your circular economy goals



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