

Experience a full-scale 5G/IoT journey



b<>com *Flexible Netlab* is a multi-tenant environment dedicated to technical experimentation from early integration up to field trials. The testbed is operated according to a standard Infrastructure / IaaS / PaaS architecture. It relies on b<>com in-house infrastructure which includes a private cloud, indoor and outdoor radio access networks. You will have access to 4G LTE and 5G authorized by Arcep, WiFi on 2.4GHz and 5GHz bands, IoT LoRa in the 868MHz ISM band.

{services and key features}:

- ◆ **Infrastructure-as-a-Service**
 - Support for multiple instances of mobile networks. Autonomous instances with an SDN/NFV architecture aligned with ETSI and 3GPP recommendations.
 - Quality & Assurance tools for Continuous Integration/Continuous Deployment.
- ◆ **Platform-as-a-Service:**
 - Wireless Access-as-a-service: Orchestration tools allowing for the instantiation, deployment, chaining and management of VNFs in various environments.
 - Testing-as-a-service: Extensive, adaptive, objective and independent range of testing services with training and advice from b<>com experts to meet market and security requirements.

{benefits}:

- ◆ **Up-and-running wireless End-to-End environment**
- ◆ **"A la carte" experimentation hosting**
- ◆ **Secure access sharing with multi-tenant capacity**
- ◆ **Neutral environment operated by b<>com**

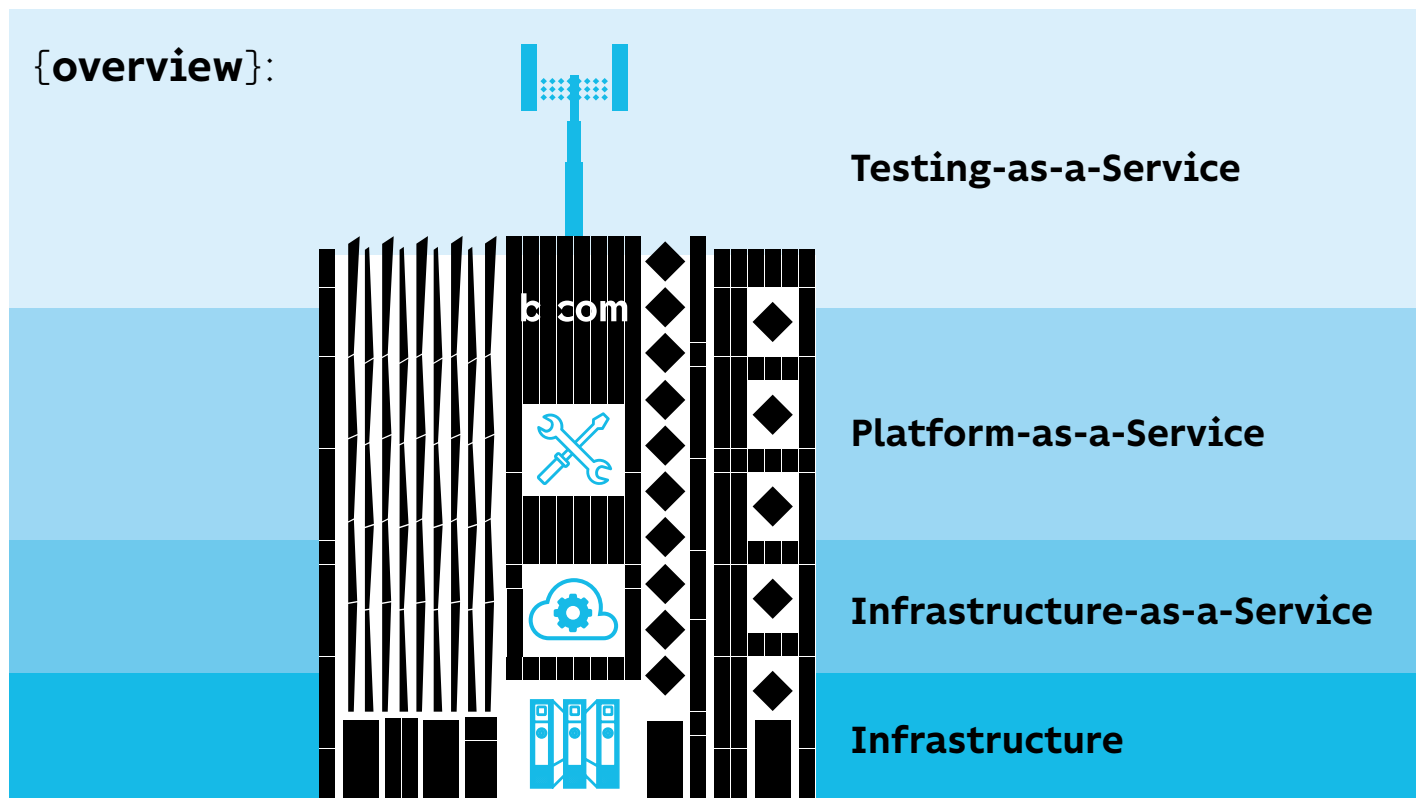
{applications}:

- ◆ Telco operators & manufacturers for integration and interoperability testing
- ◆ Virtual Network Functions developers
- ◆ Physical Network Functions suppliers
- ◆ Security Enablers developers
- ◆ 5G including IoT and security research community

{specifications}:

- ◆ **Licensed 3GPP and unlicensed Radio Access Technologies**
- ◆ **Radio Access Networks**
- ◆ **Common Infrastructure:**
 - WAN & LAN
 - Data-Center
- ◆ **Specific Network Elements**
 - Devices
 - Network Functions/Enablers
 - Hosting, deployment capacity
- ◆ **Indoor RAN**
 - 2.4/5 GHz WiFi
- ◆ **Outdoor RAN**
 - MCC-MNC codes = 208-85, 208-90, 208-92 according to Arcep (French Regulator)
 - Specific Arcep authorizations for Band 38 (2.6 GHz TDD, 30 MHz) and Band 42 (3.5 GHz, 20 MHz)
 - 2 eNodeB sites in Rennes
 - 1 eNodeB site in Lannion
 - Including LoRa on ISM band

{overview}:



{about b com}:

A technology pioneer and provider for companies that want to digitally boost their competitive edge, b<>com addresses several industries: culture & creation, digital infrastructures, health, defence and industry 4.0. Its laboratories bring together talented people from a variety of disciplines and cultures in areas like artificial intelligence, immersive video and audio, content protection, 5G networks, the Internet of Things, and cognitive technologies.

b<>com's researchers and engineers, drawn from the ranks of industry and academia, work at its Rennes campus and at its sites in Paris, Brest, and Lannion.

Thanks to its world-class engineering team, its technology platforms and its unique mix of scientific and industrial knowhow, b<>com offers its clients technology solutions that give them invaluable competitive edge.

Non binding document