Looking to the future

The global influence of rapid urbanization, population growth, and extreme weather all drive up worldwide demand for high-performance infrastructure. This means that cities, local and regional bodies, and national governments are pursuing diverse initiatives that range from replacing legacy systems to building new urban areas from the ground up.

Whether it involves the unique challenges of an airport and the innovation to drive the renewables revolution, or the infrastructure behind a new or modernized railway, communications network, or civil undertaking, Bechtel can tackle the entire project lifecycle.

From planning, design, procurement, and construction through to delivery, operations, and maintenance, we deliver the highest value for all stakeholders. In particular, we champion innovative value-based procurement to address risk and encourage investment in the smart infrastructure on which successful global economies depend.

All sectors. All services.
By aligning our capabilities to our customers' objectives, we help them achieve transformative communications projects.

Our relationship with AT&T and its affiliates goes back almost 20 years. During this time, we have delivered complex projects ranging in scope from new site builds to over 100,000+ wireless cell sites across the United Kingdom, including around 1,000 small cells, allowing for a phased deployment of the latest technology on 15G+ wireless networks. Our work supports the deployment of wireless and wireline technologies, most recently 5G LTE in preparation for upcoming 5G deployment.

### Key projects
- **Fiber Tower**: Microwave backhaul deployment
- **Fiber**: Optical infrastructure
- **US SunTel**: Hybrid FTTx and FTTH deployment
- **Verizon FTTx**: Engineering to 300,000 homes
- **Google FTTH rollout**: FTTH deployment
- **AT&T**: Wireless site deployment

### Projects by Region
- **AT&T, USA**
  - Role: Program management, site development, design, procurement, construction, management, commissioning, and added-value services.
  - Key projects:
    - North American 3G deployment
    - National 3G RF governance for Australia

- **Vodafone, Europe**
  - Role: Project management, site development, site acquisition, design, procurement, construction management, commissioning, and added-value services.
  - Key projects:
    - Barclays trade execution platform network revitalization
    - Deutsche Bank
    - Dresdner Bank
    - ING
    - UBS

- **Vodafone Rail Service, UK**
  - Role: Program management, site development, design, procurement, construction management, commissioning, and added-value services.
  - Key projects:
    - Vodafone Rail Service, UK
    - Vodafone Rail Service, Russia

- **Vodafone Rail Service, China**
  - Role: Program management, site development, design, procurement, construction management, commissioning, and added-value services.
  - Key projects:
    - China Railways
    - Guangdong

- **Matroneda Fiber Network, North America and Europe**
  - Role: Program management, site development, design, procurement, construction management.
  - Key projects:
    - TELUS
    - Verizon
    - Comcast
    - AT&T

We constantly innovate, growing demand for cellular coverage and quality of service along the main rail routes. Bechtel developed model site designs and other innovative solutions to resolve issues of propagation and signal handover between sites. Bechtel performed testing and design for 1,000+ sites and shared sites along 3,000km of rail. Our role included site survey, site planning, including RF planning, site acquisition, procurement, site design, installation, commissioning, and pre-launch optimization.

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**Helping our customers deliver**

**Transformational communications projects**

By aligning our capabilities to our customers’ objectives, we help them achieve operational and performance excellence.

**Managing complexity**
- Our experience as a planner, designer, and tester allows us to deliver the highest level of communications projects worldwide.

**Core capabilities**
- **Wireless**
- **Broadband Fiber**
- **Data Centers**
- **Infrastructure**

**Optimizing project delivery**
- Our expertise in developing stakeholders to approach project delivery with a holistic perspective.

**Applying technical expertise**
- To solve our customers’ logistical challenges, we are continually innovating and developing requirements and solutions.

**Ensuring a lasting positive impact**
- We partner with clients to ensure their future success and to ensure our customers’ projects reach their final outcomes on our projects.