E-lighthouse Network Solutions

Where networks meet innovation and excellence

Who we are?

Founded in 2017 by senior telco industry + academia members, stemming from internationally recognized R&D group in network planning in Cartagena (Spain).

Understand the network and the customer needs	✓Specialists with >25 years in IP & transport planning will understand your needs. We speak the “planning language”
R&D is our DNA	✓Our founders sum >40 years of research expertise in network optimization. Strong presence in R&D projects
Network planning & optimization & analysis	✓We leverage on our unique software for network optimization & planning, built on top of >25 years of international expertise

Core objectives

Our vision

- To lead the industry in providing network planning tools that enable our customers to drive innovation and achieve excellence in their telecommunications infrastructures.

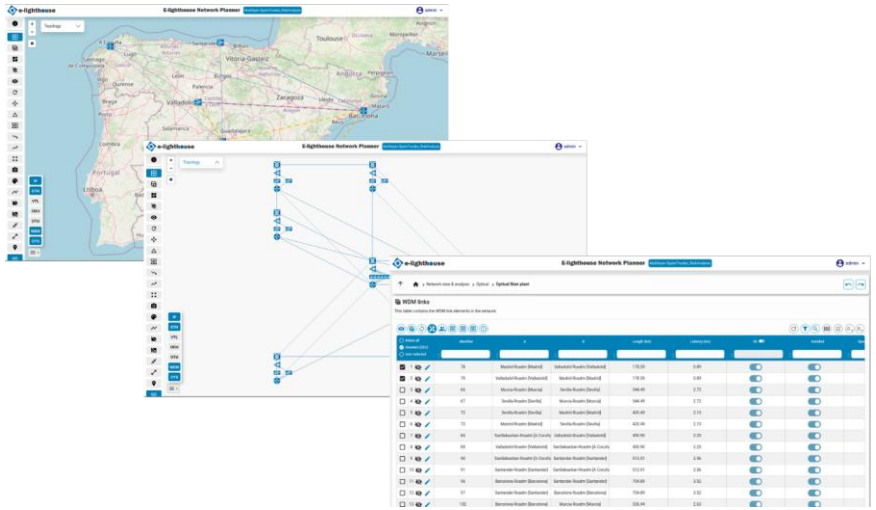
Our mission

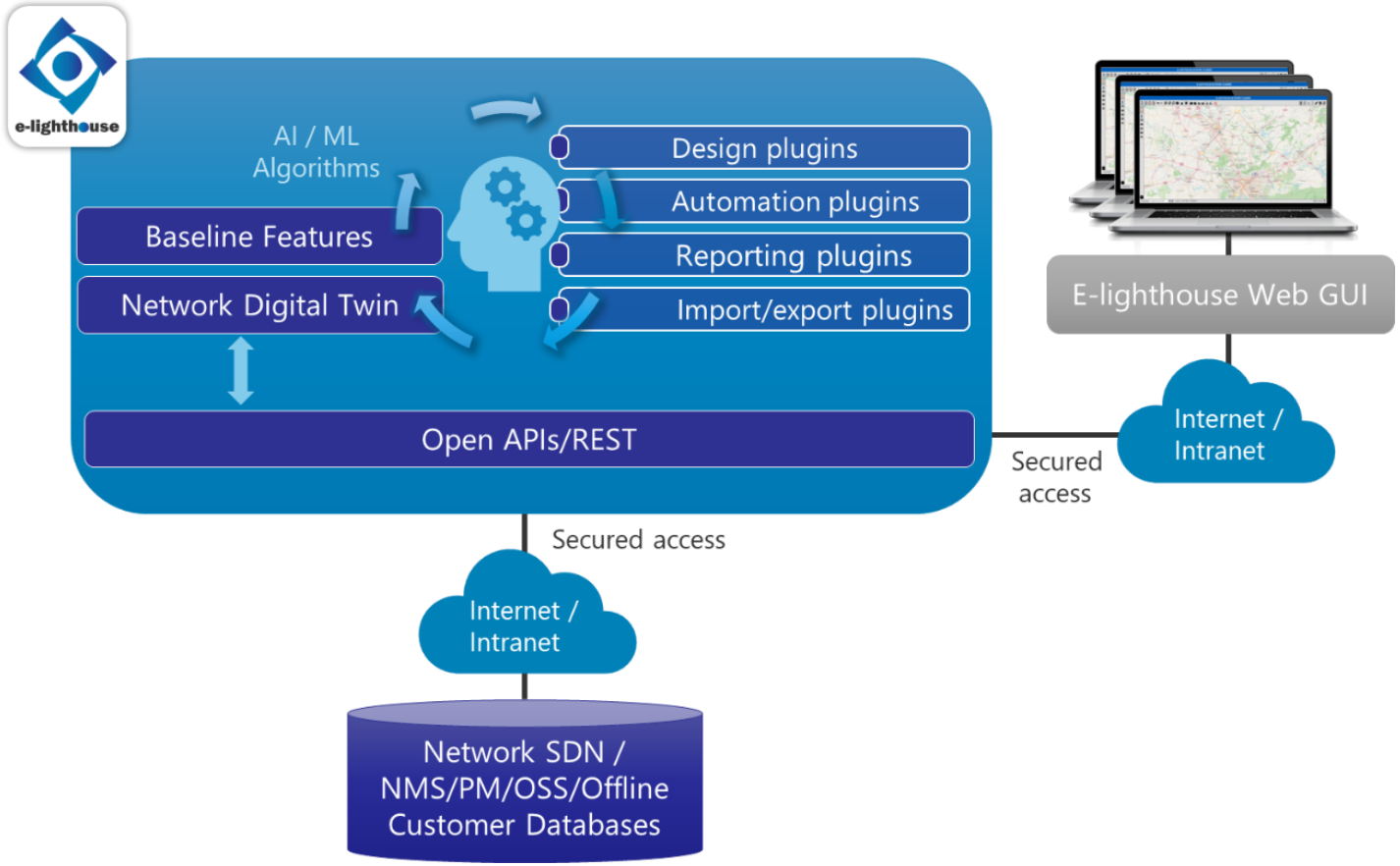
- To provide advanced technological solutions that enable telecommunications operators to maximize the performance and efficiency of their networks.

Technological solutions

E-Lighthouse Network Planner (ENP)

Our flagship product, the E-Lighthouse Network Planner (ENP), is an advanced tool for network planning and optimization. ENP enables operators to manage their networks comprehensively, from the access layer to the core layer, optimizing resources and improving network performance.





Market and customers

- **Communication Service Providers:** main telecom operators, ISPs , media & communication service providers.
- **Enterprise & Utilities Networks:** Sectors such as defense, banking, transport, oil & gas.
- **Software and Hardware Manufacturers:** Companies looking to add value to their products with planning tools.
- **Network & System Integrators:** Companies seeking to complement their network products and services with network planning capabilities.

R&D Projects

E-Lighthouse actively participates in national and international research projects, such as B5G-OPEN and ALLEGRO, which explore the frontiers of network and telecommunications technology. Our participation in these projects reinforces our innovation capacity and keeps us at the forefront of technological development.

Intellectual property protection strategy

- Our intellectual property protection strategy combines trade secret protection with an open API policy. Optimization algorithms, considered our most valuable assets, are rigorously protected, ensuring that our solutions remain secure and competitive.

Some success stories

- **(2019) First ranked by Tier-1 in RFQ network planning benchmark**
  - Beating current incumbent suites.
  - > 20 different tests in real IP/DWDM core & backhaul networks. Identification of 20% to 30% CAPEX reductions.

- **Continuous research is in our DNA:** > 30 years network design research track of our founders.
  - Today, E-lighthouse participates in national projects and European projects, all in collaboration with major carriers & vendors. We are in contact with the latest technologies and focus on the re-design and re-dimension of the network with them, finding new efficiencies.
  - Example. B5G-OPEN (https://www.b5g-open.eu/ , 2021-2024) - European project in 5G & Beyond networks.
    - E-lighthouse is in charge of dimensioning & techno-economics of the network, exploiting the technologies developed in the project. Focus: front/mid/backhaul & metro & core for Telefonica, Telecom Italia, British Telecom use cases.

Our message

We pride ourselves on our adaptability to customer needs and expertise in 5G, 6G and beyond technologies, from the network edge to the core. Our network software's lightweight integration with customer existing infrastructure ensures seamless performance improvements while identifying bottlenecks and uncovering OPEX/CAPEX savings opportunities. Trust E-lighthouse Network Solutions to deliver flexible, cutting-edge, and efficient network solutions tailored to your business requirements.

Thanks for your attention!

Any questions?

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