Legacy Software **Modernization** for a Telecom Company

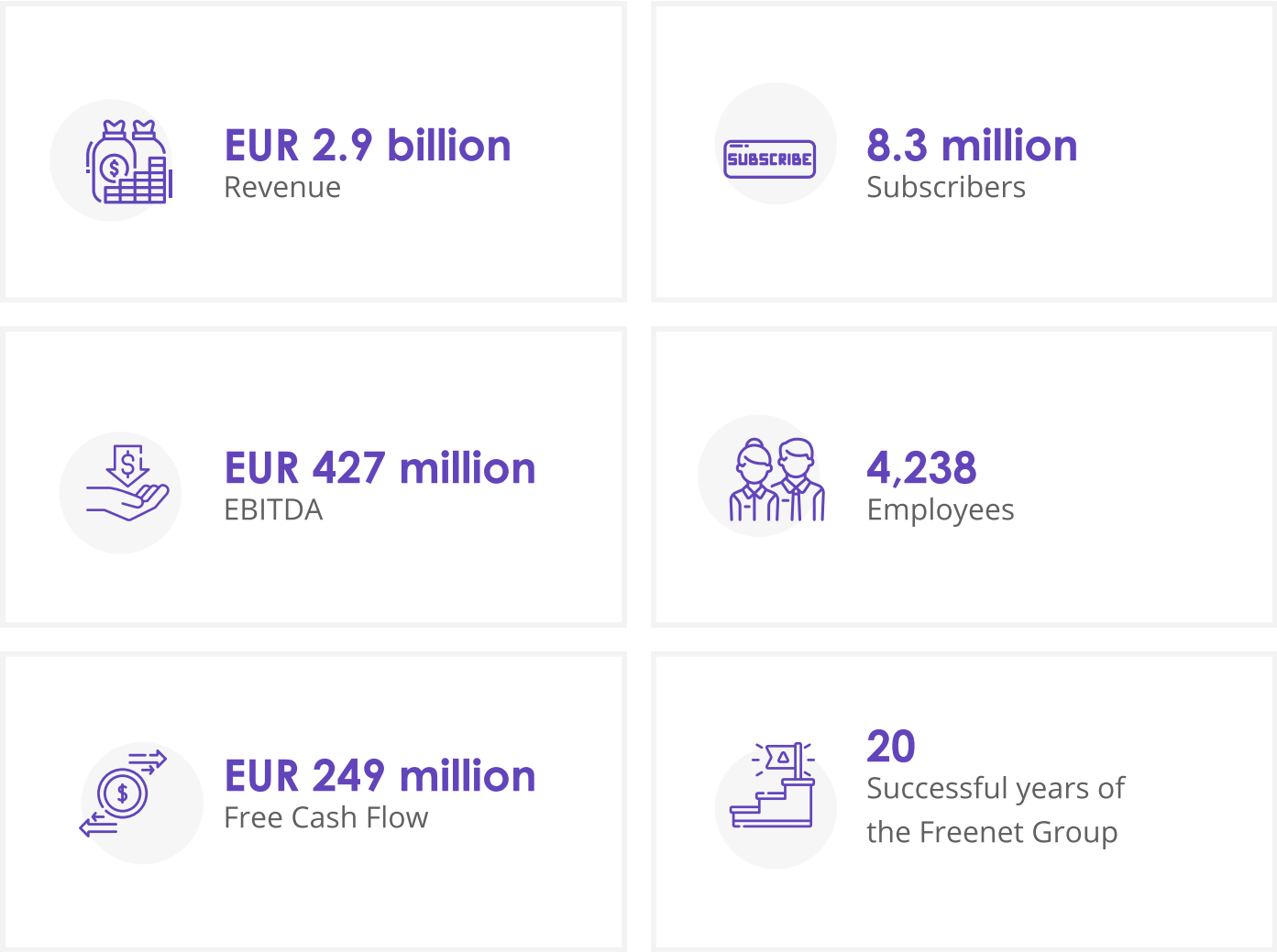**freenet** GROUP

edvantis

Intro

Edvantis helped the **Freenet Group** upgrade its legacy infrastructure and migrate to a more agile microservices architecture in one year.

Challenge

The **Freenet Group** is the largest network-independent telecom provider in Germany, offering a range of telecommunications, broadband, web, media, and TV services to its growing base of 8.3 million subscribers.

Freenet Key Figures at a Glance*

EUR 2.9 billion
Revenue

8.3 million
Subscribers

EUR 427 million
EBITDA

4,238
Employees

EUR 249 million
Free Cash Flow

20
Successful years of the Freenet Group

*as of date 31.12.2019

Four Main Brands in the Freenet Group:

One of the largest European providers of mobile phone services in Europe.

Mobile virtual network operator, offering discounted subscription plans.

Authorized Apple reseller in Germany.

Free email and cloud service.

As a market leader, striving to innovate, Freenet Group recognized the need to upgrade its legacy codebases early on. The original systems were built on **Java 6** and Jboss (WildFly) application servers which no longer met its business needs.

Edvantis engineers were selected to assist Freenet with migrating and porting due to their significant experience with the **Spring Boot** framework, **Java 11**, and **Mono+Flux libraries**.

Solutions Delivered by Edvantis

The Edvantis team migrated and fully ported **16 legacy services** to the new infrastructure in just **12 months**.

Our main goal during migration was to preserve the business logic for all the applications to avoid any operational disruptions.

Furthermore, **our engineering team:**

✓ **Performed code** refactoring and improved its quality within the newer Java 11 version.

✓ **Upgraded legacy** libraries using Spring Boot features.

✓ **Used a reactive approach** to IT system modernization and helped the client migrate to a future-proofed microservices architecture, built on Java 11.

"Edvantis has intelligent people on board, competent and ready to get the job done. Their professionalism and approach to development has made for a good experience thus far, along with the speed and accuracy of their work."

Thomas Reimann,
Division Head Billing and Backend,
freenet Group

In addition to development, Edvantis performed a set of essential QA services to ensure that the new systems function as intended. **We delivered:**

- ✓ **Code coverage reports** that verified if the migrated biz-logic was fully covered by tests

- ✓ **Integration testing** to ensure there were no new bugs in the migrated code

- ✓ **Static code analysis** to double-check that the code is clean and ready-to-be deployed.

Technologies Used:

JavaScript

Spring Boot