



PortoVecchio 5G – Innovation and better life in Trieste **PV5G**



The context of «Porto Vecchio»







The Old Port of Trieste is a historic area located on the Adriatic coast, it was originally designed to support freight activities. Over time, changes in global trade and transportation methods led to its decline, leaving much of its infrastructure underutilized and unsuitable for modern logistics. Currently, the Old Port is undergoing a revitalization effort. The redevelopment plan divides the area into four key zones: mixed-use spaces, piers, museum-scientific-congress facilities, and recreational-sports areas.













PV5G - Project







The PortoVecchio 5G project aims to transform the historic Old Port of Trieste into a vibrant hub for **digital education and technological innovation**.

Deploy Public and Private 5G Networks: Including outdoor nodes, edge computing, and private indoor networks.

Establish a Digital Education Hub 4.0: Featuring immersive technologies like AR/VR/MR for enhanced learning experiences

Create a Quantum Communication Lab integrated with 5G networks – this research and development facility will focus on advancing quantum communication technologies and integrating them with 5G infrastructure.



The project benefits from a maximum EU grant of €2,572,413.75, which covers 75% of the total eligible costs (€3,429,885.00) for most activities.









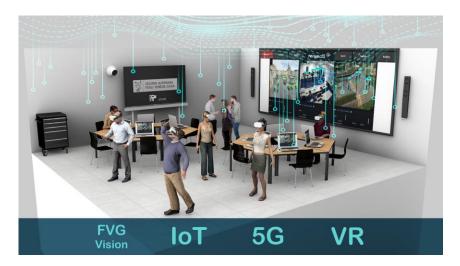




PV5G – Use cases definition







The Education Hub will serve as a hub for experimentation with

advanced digital ______ Use case 2 on: technologies, promoting innovation and lifelong learning.

Quantum Communication

Use case 1: will leverage 5G technology to explore cutting edge technologies for education, such as Immersive Learning Experiences, and host an IoT Laboratory

Hands On Lab on IoT Sensor Ecosystem using **FVG Vision** platform





Design of courses using Virtual Reality.











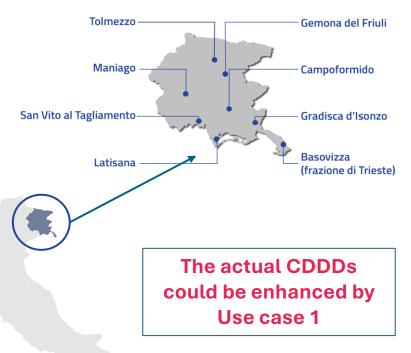


CDDD Network – scalability&replicability





CDDD – Centro Didattico Digitale Diffuso (Distributed Digital Education Center)



The Education Lab will also act as a reference point for the local community and a **replicable model for other digital urban regeneration initiatives**.

Digital classroom

PC

Tablet

Interactive Whiteboard

Printer

Upgrade: VR- IoT facilities

Conference room

Audio-visual system Webinar/Streaming system

Connectivity

Fiber Network

Upgrade: 5G coverage

CDDD LAYOUT















