

## Economic Feasibility

**Demonstrate, as far as can reasonably be estimated, the economic feasibility of the proposed project for its intended applications. Among the areas that may be addressed in the cost for performance analysis are the following:**

- a) Balanced costs (infrastructure versus attached stations).**
  - b) Known cost factors.**
  - c) Consideration of installation costs.**
  - d) Consideration of operational costs (e.g. energy consumption).**
  - e) Other areas, as appropriate.**
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- As this project is focused on a single twisted copper wire pair as the media, there would likely be no difference in direct costs for infrastructure vs. attached stations. The advantages of Ethernet LAN technology in the target market, however, make the LAN solution far superior to an attached station.
  - The cost factors for Ethernet components operating on twisted-pair copper wires and systems are well known. The proposed project may introduce new cost factors which can be quantified.
  - In consideration of installation costs, the project is expected to use a low-cost twisted pair channel in the target marketplace.

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- Network design, installation and maintenance costs are minimized by preserving network architecture, management, and software.
  - In consideration of operational costs associated with power consumption, the project will examine alternatives that trade off PHY complexity, power, and implementation constraints. The project has adopted an objective to support Energy Efficient Ethernet, which will help reduce operational costs and environmental footprint.