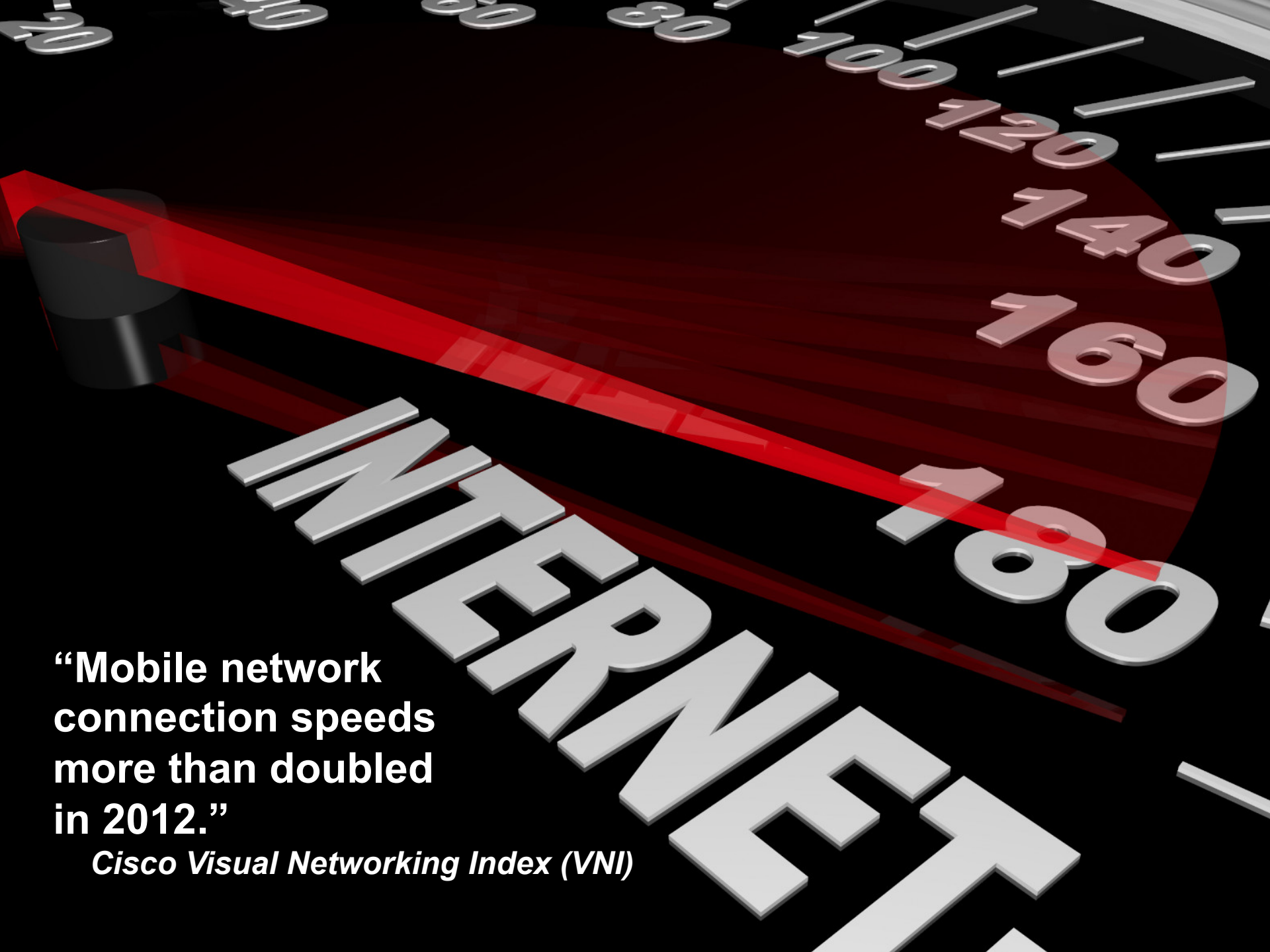


CARPOOL

Connectivity Plan Routing Protocol

Ioannis Komnios
Space Internetworking Center





**“Mobile network
connection speeds
more than doubled
in 2012.”**

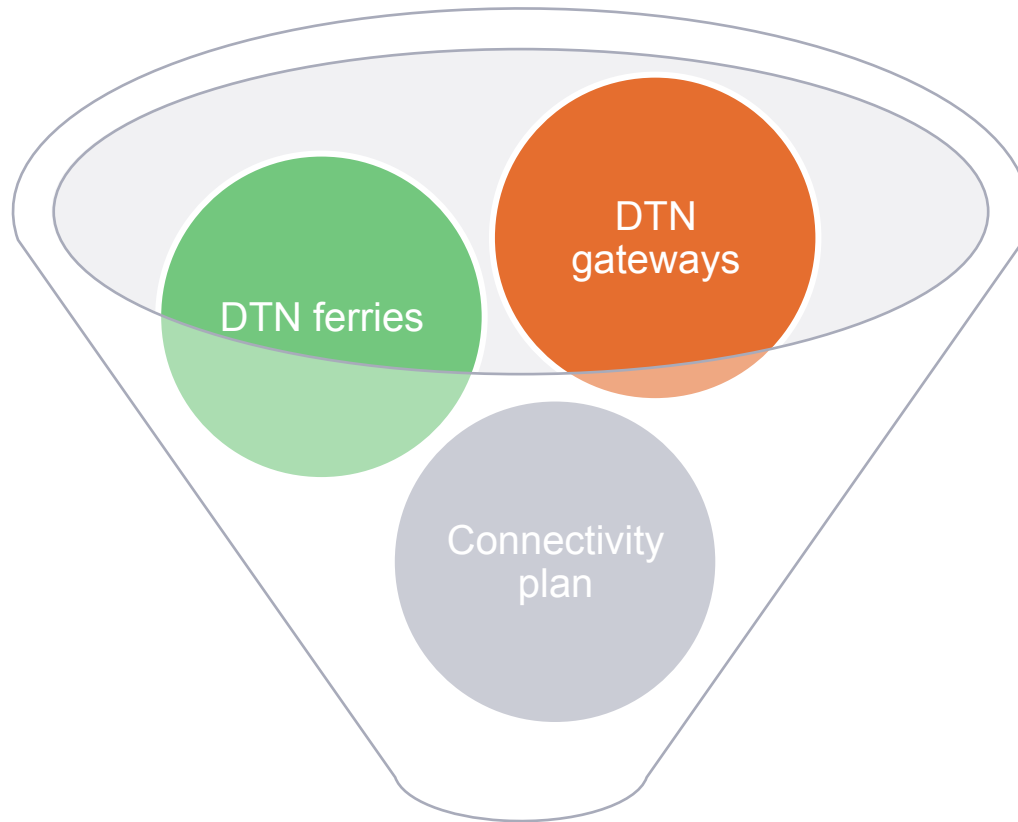
Cisco Visual Networking Index (VNI)

**Athens,
February 2013**



Extend Internet coverage provided by public hotspots through buses

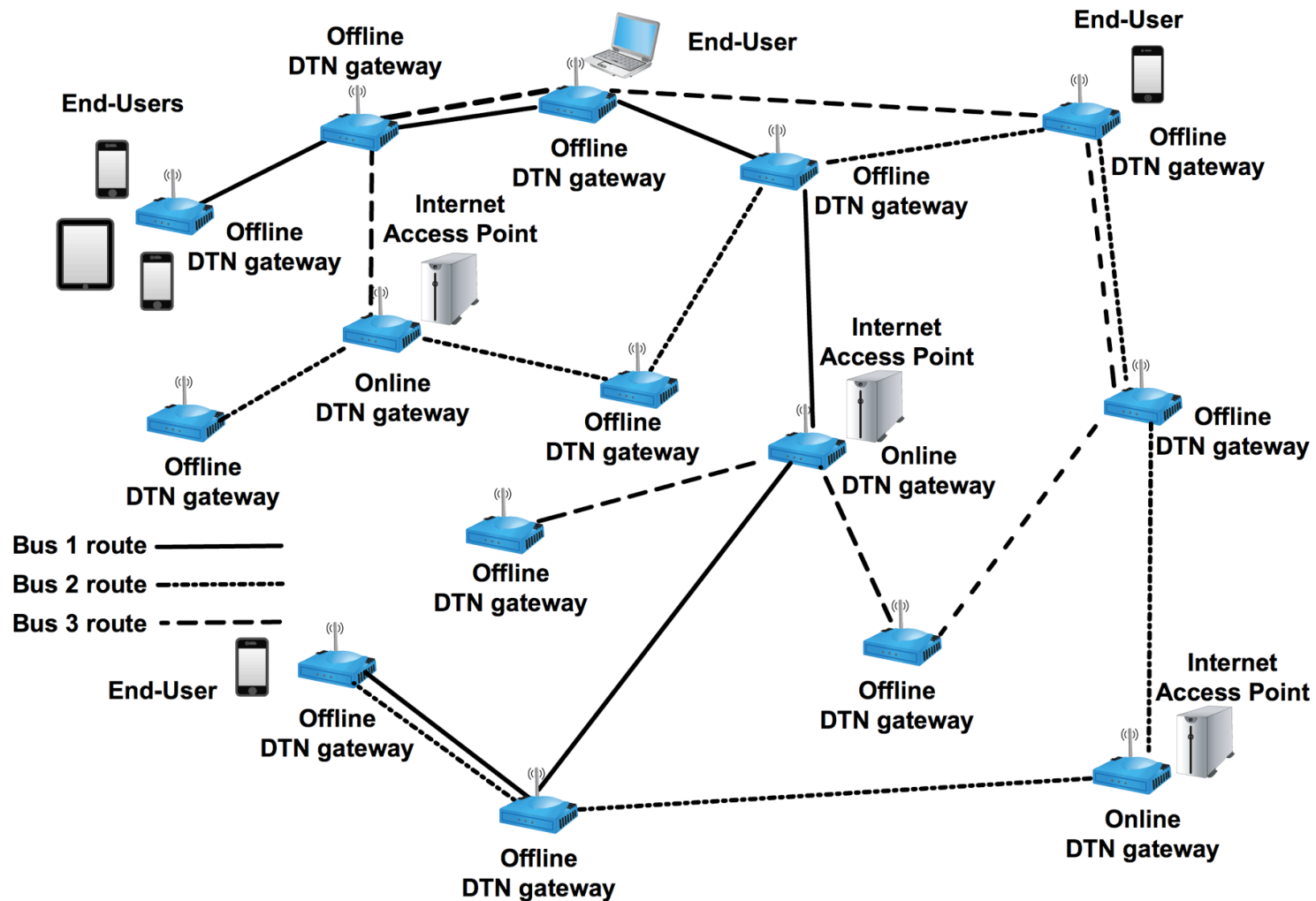




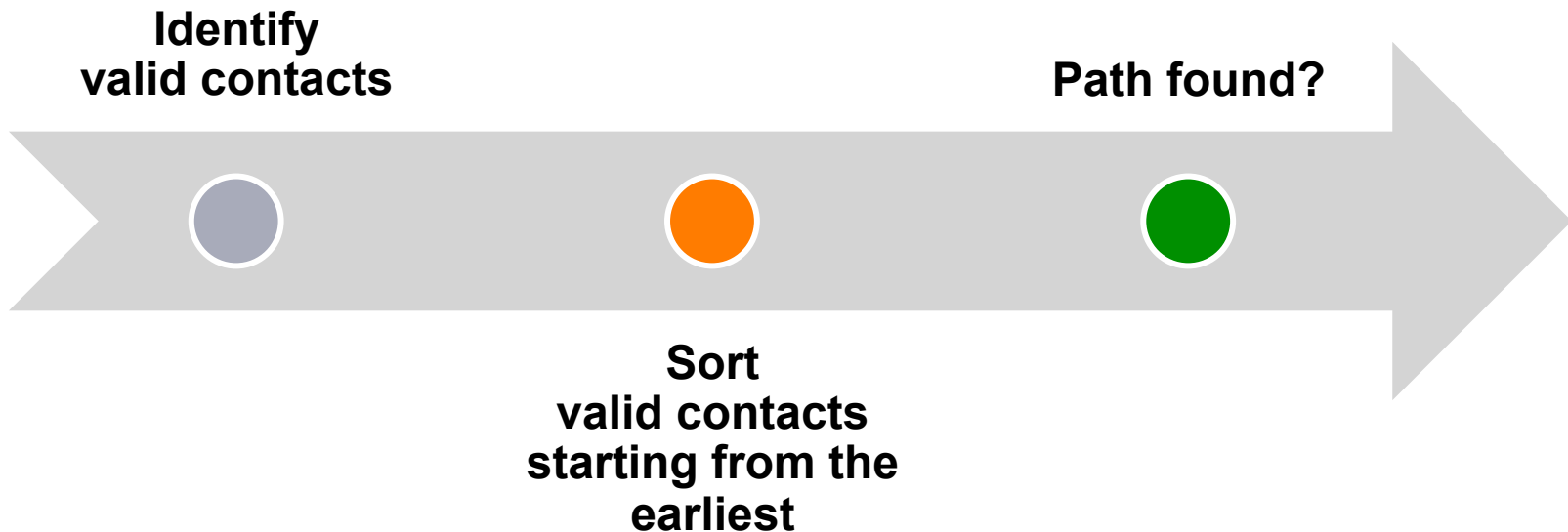
CARPOOL

Connectivity Plan Routing Protocol

Sample Topology

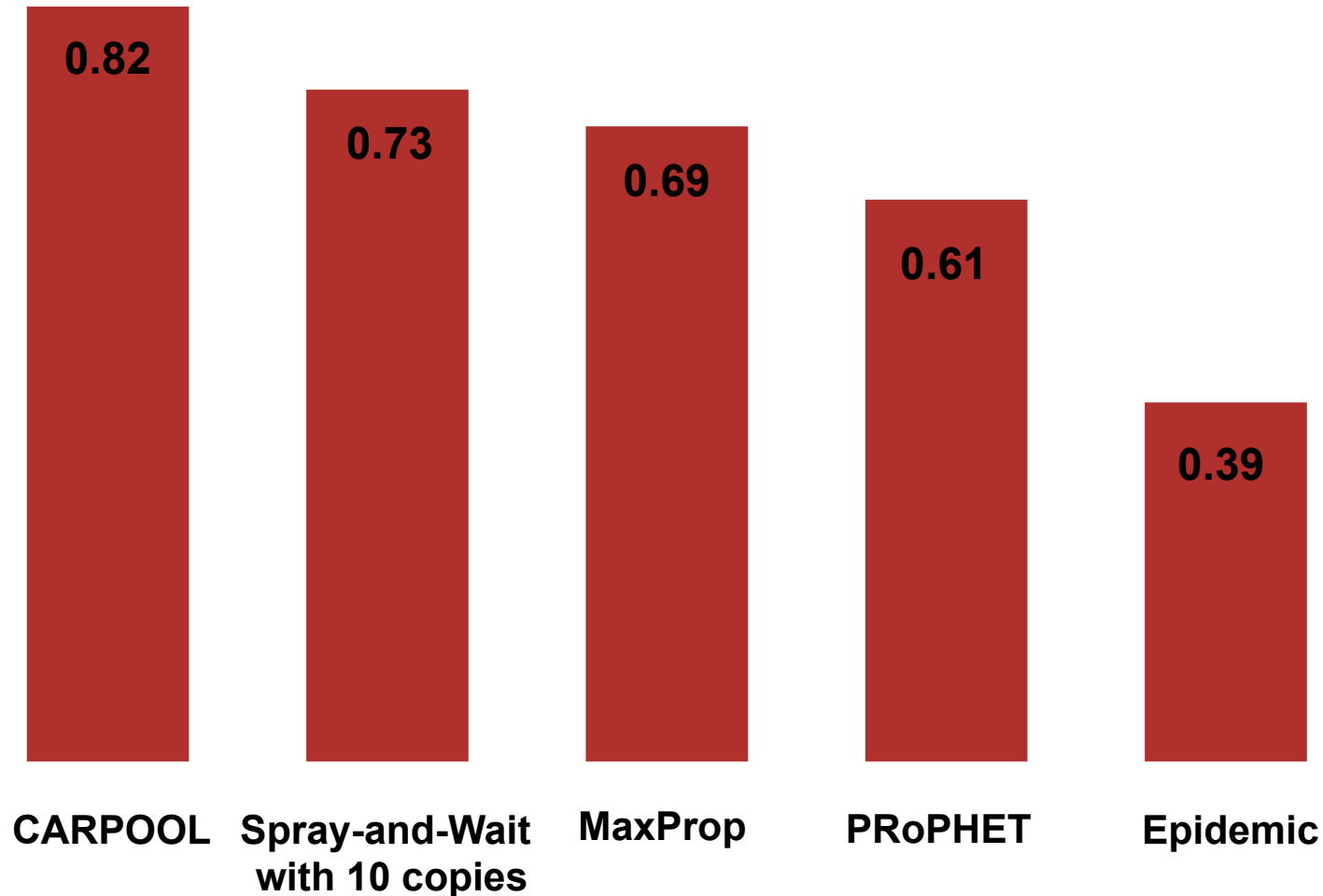


CARPOOL Algorithm

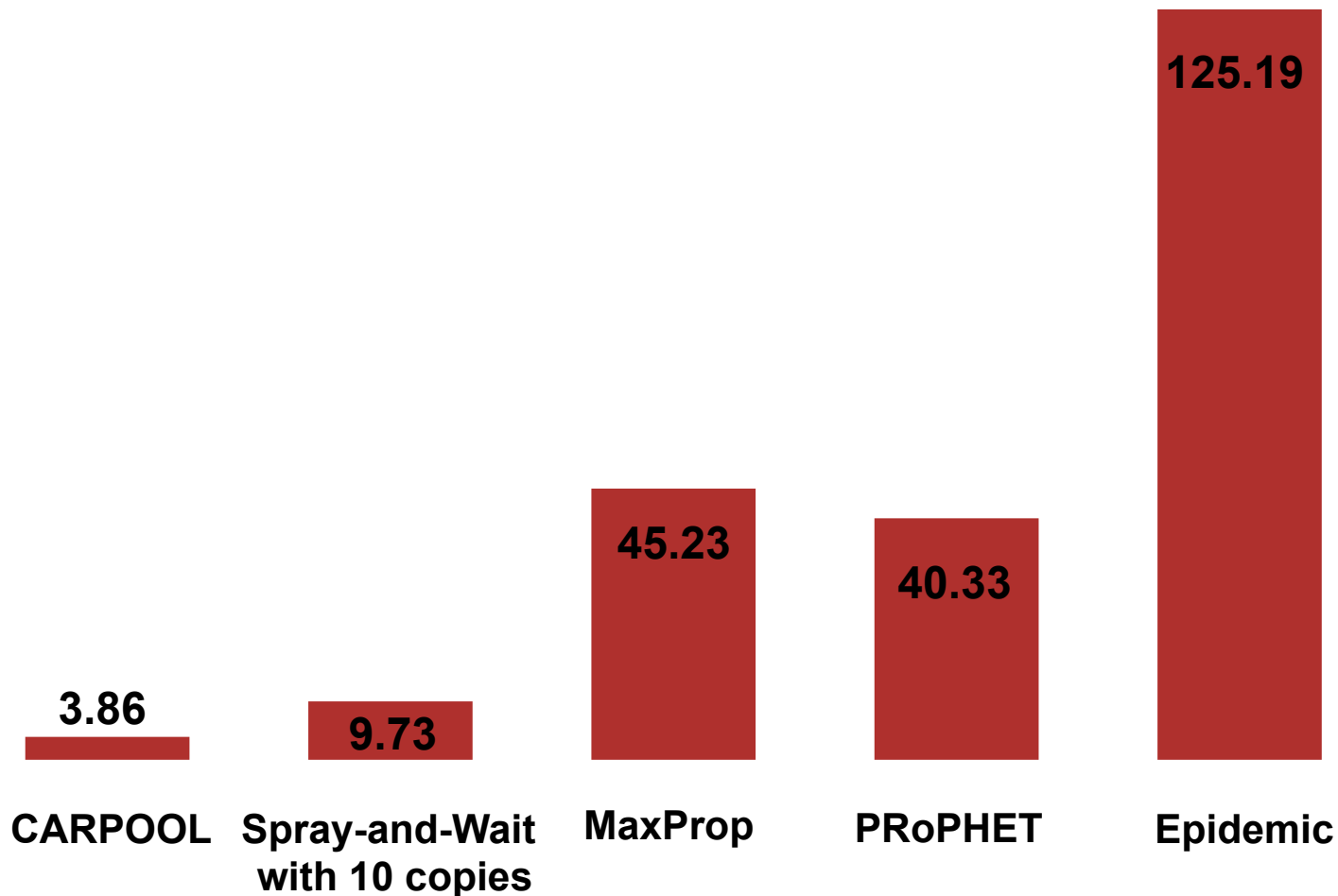


Connectivity Table Structure
[GatewayID, FerryID, ContactTime]

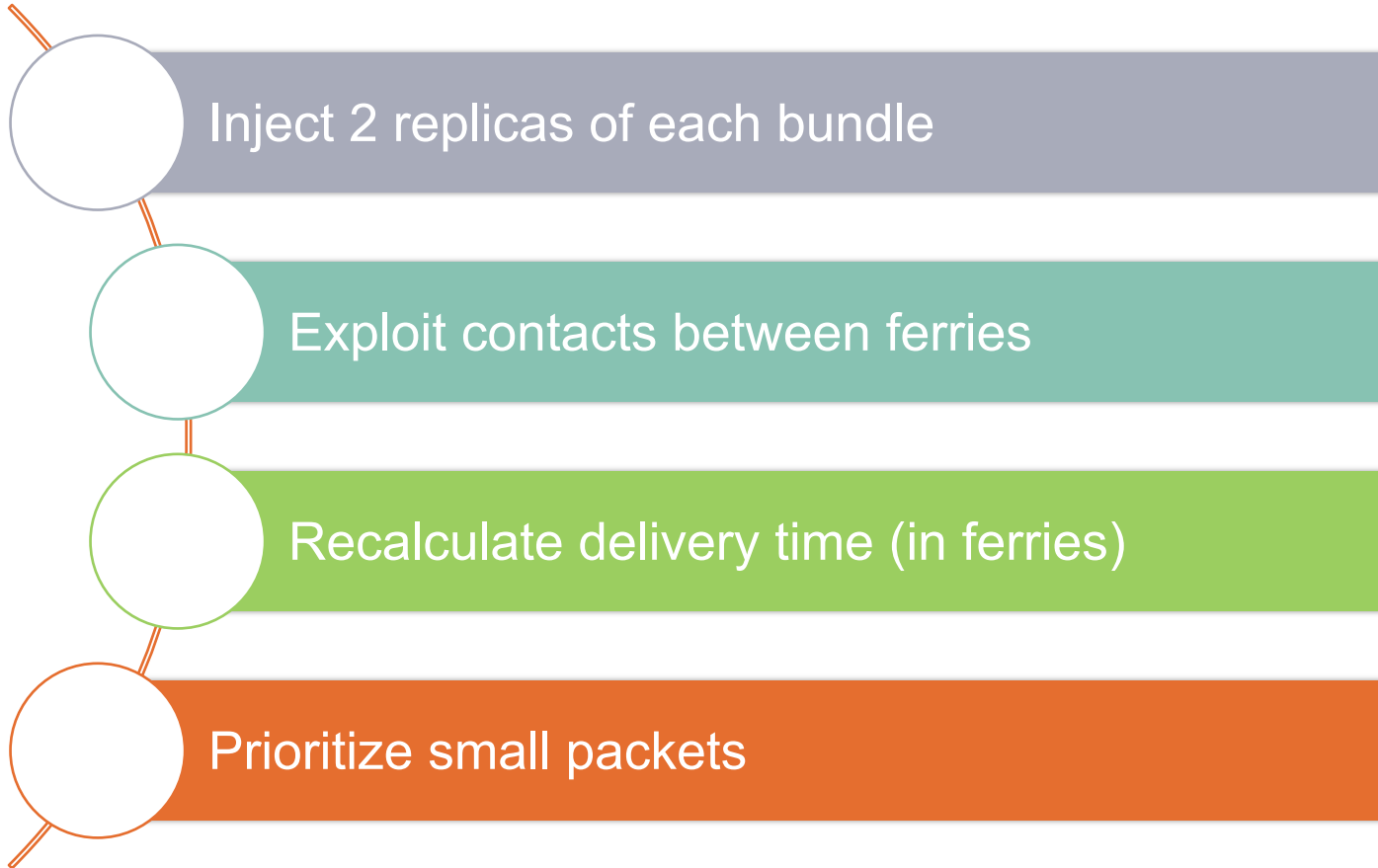
CARPOOL manages to successfully deliver **82%** of the bundles



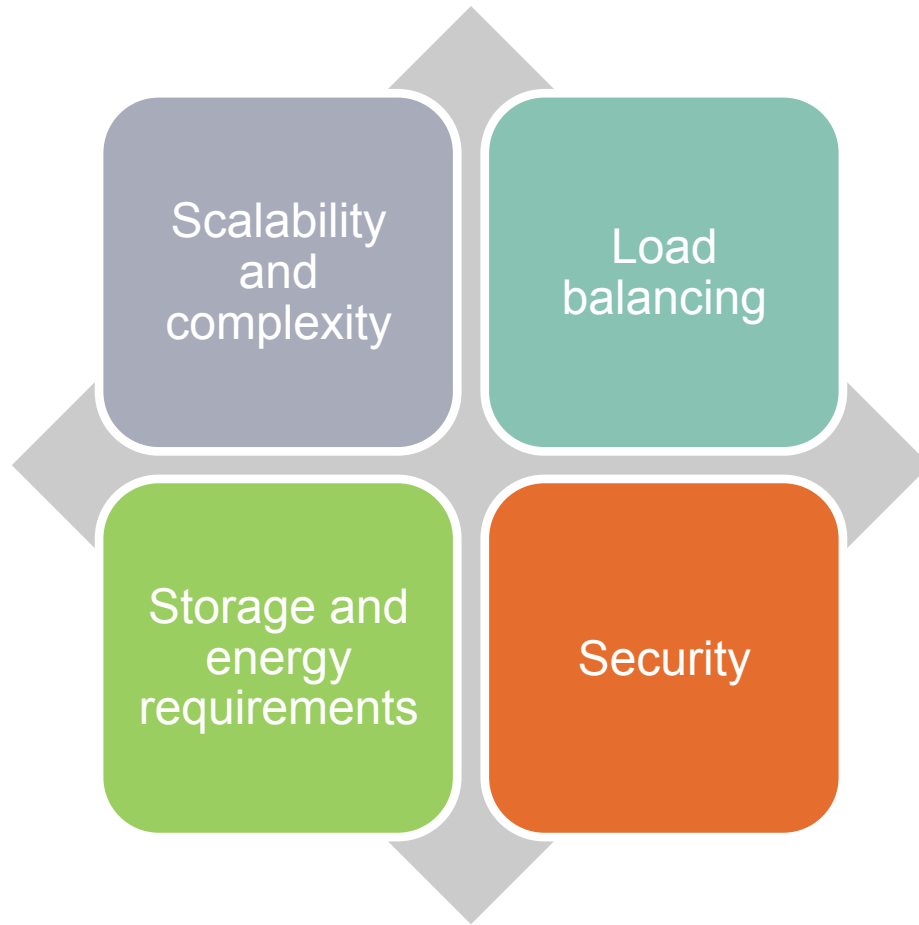
with **minimum overhead**
even in the worst-case scenario



Enhancements



Open Issues



Conclusions



Thank you!
Questions?

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