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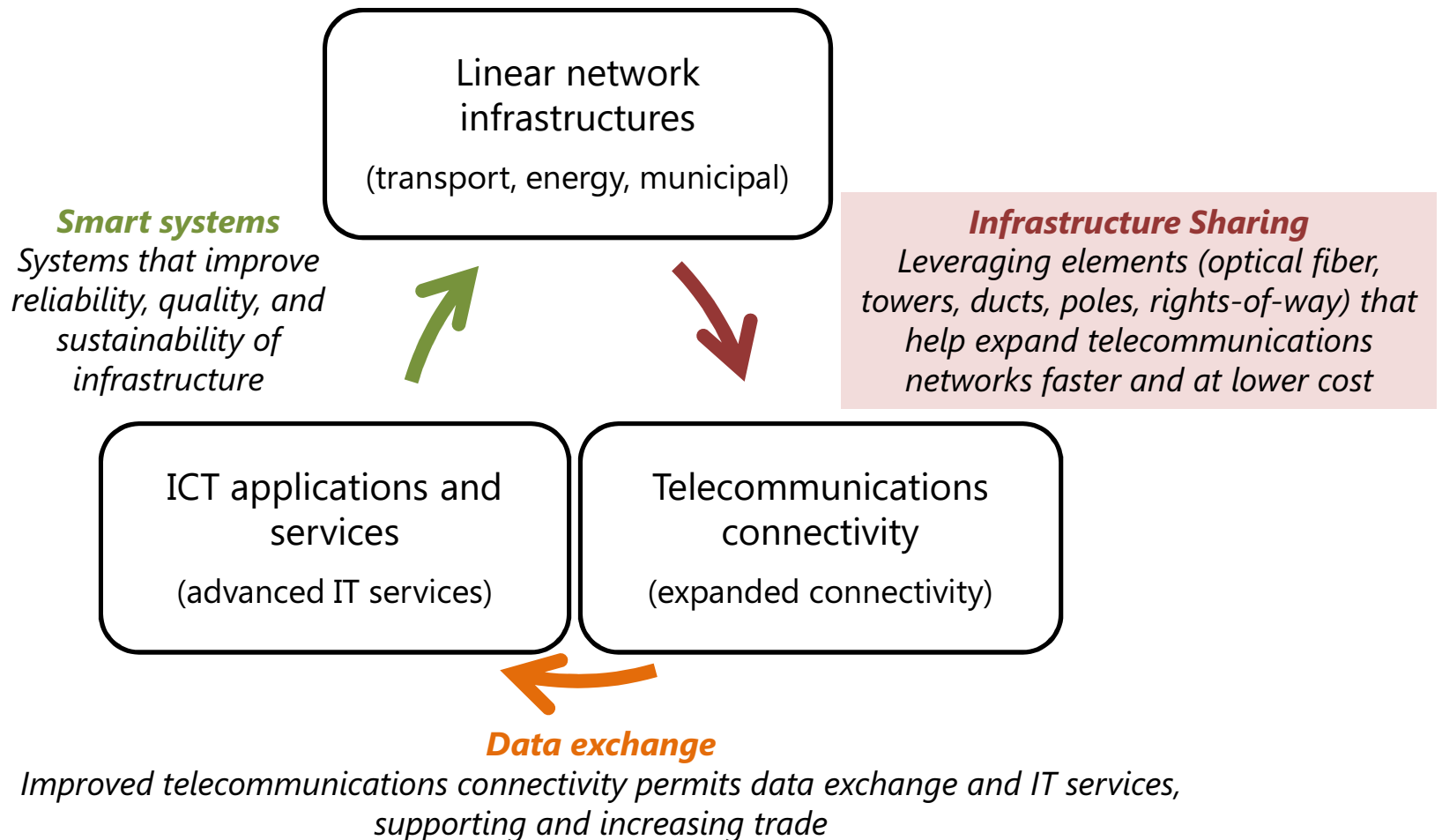
Unleashing infrastructure synergies: *Connecting to opportunity*

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The opportunity

Transport and ICT are about connecting people and businesses to each other, to public and financial services, and to economic opportunities.

We can define a *common future* for both sectors—unleashing *synergies* and unlocking significant *benefits*—connecting more people to opportunity!



Where is the opportunity?

	Utility has existing infrastructure that telcos can use (<i>by default</i>)	Utility can develop infrastructure that telcos can use (<i>by design</i>)
Railways	<p>Railways have optical fiber cable networks—used for signaling—can be used for telecom (e.g. RailTel India; Georgia RT; Poland RT; Adif Spain; Morocco)</p> <p>Some lease out ducts (Tunisia SNCFT)</p>	<p>Railways have ROW that can be made available (common); can develop ducts/fiber</p>
Roadways	<p>Some lease out ducts (e.g. Georgia; Poland; Lithuania)</p> <p>As ITS becomes more popular, administrators are deploying OFC that can be used by telcos (e.g. MSRDC India, France)</p>	<p>Roadway ROW is the usual deployment pathway for telcos (very common); can develop ducts/fiber (e.g. Vermont)</p>

Why do this?

Utility perspective

Telecom perspective

Benefits

- Additional revenues, at relatively low cost
 - Uses excess capacity on existing fiber, utilizes underused assets (e.g. ROW)
 - Dig once, use multiple times—less social and environmental impact
 - Potential to use improved connectivity for smart systems
 - Possible to spin off/privatize the business
- Significant cost savings—between 50 and 80%
 - Increases ability to reach rural and remote regions
 - Improves redundancy
 - Can support and promote competition in the market
 - Reduces time-to-market, due to access to passive infrastructure, simpler (or no) ROW/site acquisition processes

Risks

- Could burden the institutional capacity of the utility
 - Joint deployment timing
 - Demand assessment gaps
 - Regulatory considerations
- Lack of information on availability of infrastructure
 - No clear rules on process, pricing, contracting
 - Timing and regulatory concerns

How to do this?

Policy and regulation

- Open up telecommunications markets—allow utilities to enter (at least some segments) of the telecommunications business
- Set clear utility regulation, including cost apportioning, rate base calculations or tariff for access
- Set up an institutional coordinator/issue a relevant policy

Information and process

- Create maps of infrastructure, provide access to information on infrastructure presence and use to any licensed operator
- Share information on planning of new infrastructure, enable joint deployment
- Create standardized mechanisms of requesting and pricing access

Dispute settlement

- Have a clear dispute settlement process, identifying which regulators/agencies are involved—*maybe setup a coordinator*

Standards and SOPs

- Develop standards for new infrastructure to include ducts/fiber optic
- Develop SOPs for updating infrastructure to include sharable elements
- Create SOPs for physical access, maintenance, and operation

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