Disruption Tolerant Networking (DTN)

- Problem: TCP/IP protocol suite only works when a continuous path from end to end exists
- Solution inspired by email: Collect data in larger units (bundles) and send them reliably hop by hop.

- Example: Smart Digital Camera with WLAN (wireless) access.
- Objective is to ensure that pictures are archived at home.
- Trust car, leave copies and free up storage. When car arrives at home, move pictures to archive.
- Visiting an untrusted cafe, leave copies but retain data in camera.
- Sometime later, verify that pictures arrived at home. If they did, remove data from camera, else retry.

- DTN abstraction fits well with hotspot WLAN access. High bandwidth available locally, narrow access to the Internet.
- Train scenario: At Knivsta send command to retrieve new email and morning paper.
- Data will not arrive before train is leaving, send data Märsta.
- Retrieve data at Märsta via local high bandwidth connection.

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