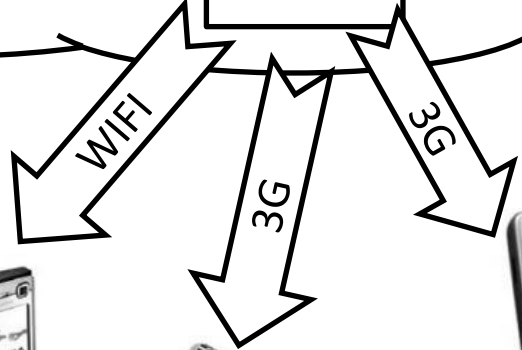
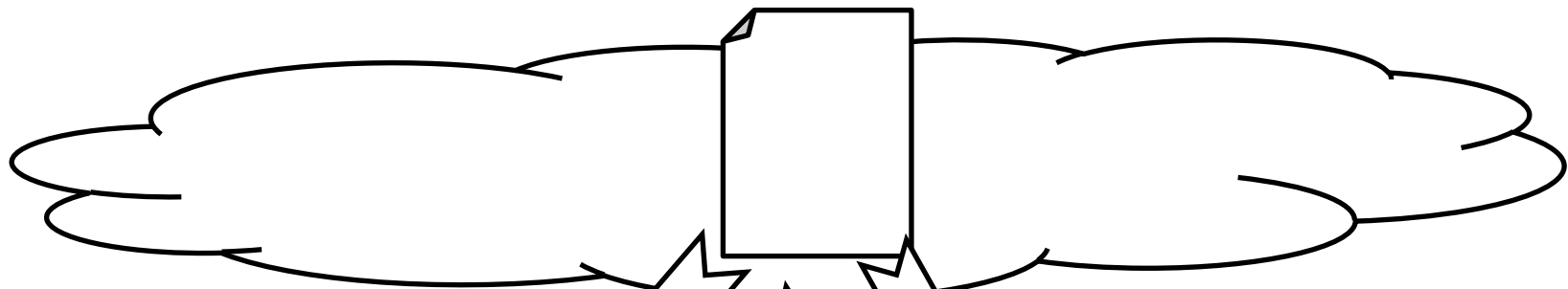
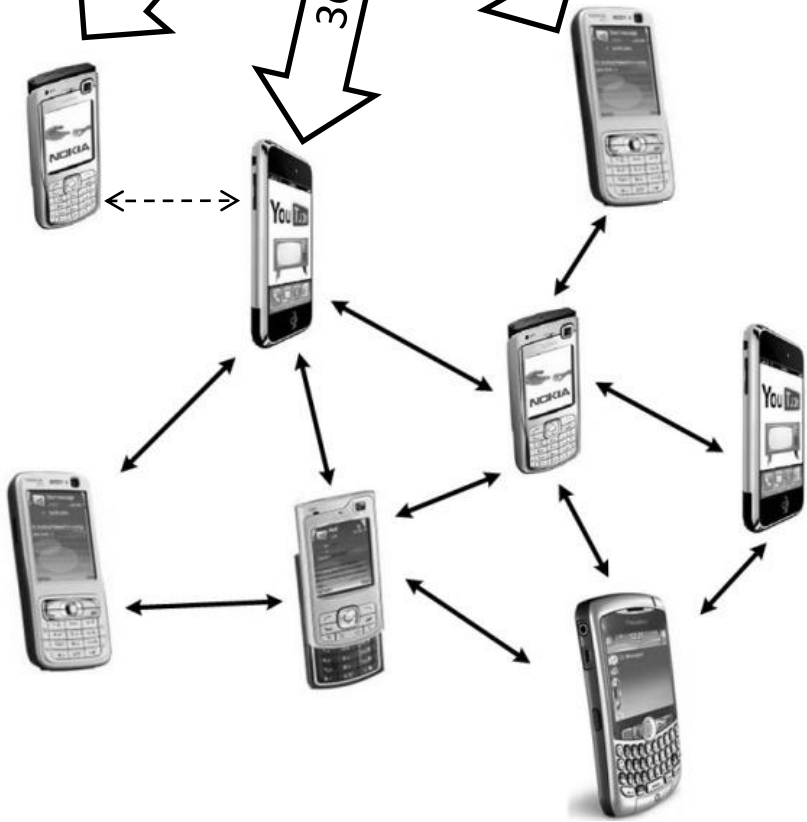


# Delay-tolerant Distributed Downloads Using Haggle

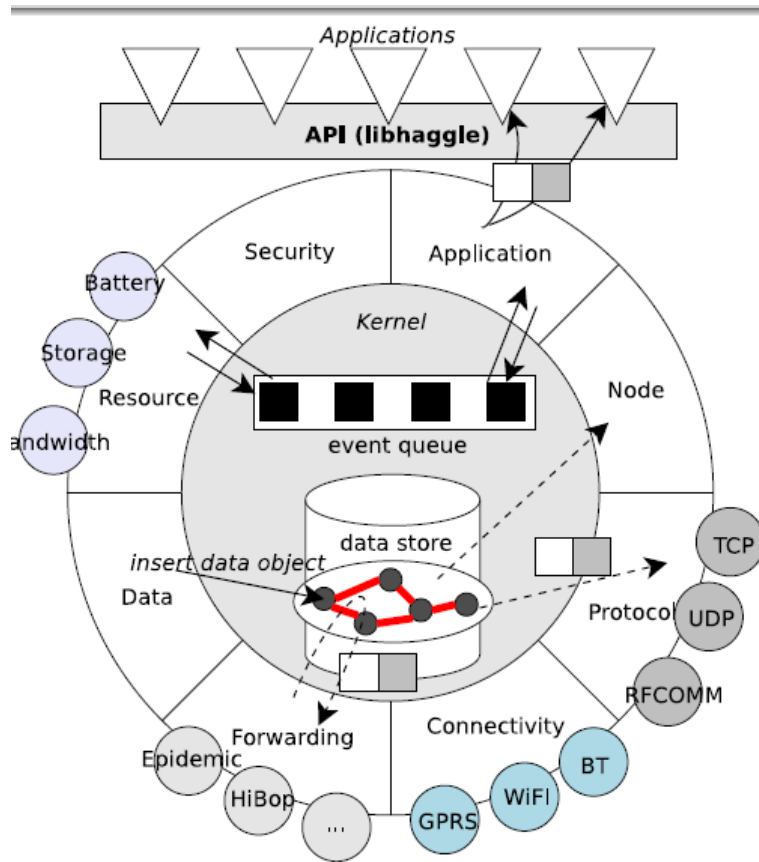
Karthik Nilakant (kn290)



- Constraints:
- Connectivity
  - Bandwidth
  - Charges
  - Energy



# Application Structure



- Application layer:
  - Requestor (subscriber)
  - Retriever (publisher)
- Segmentation scheme, protocol to avoid re-download
- Constraint management through other modules (e.g. resource manager for battery life)

# Plan of Attack

- Implement on Android 2.1 and desktop platform
- Allow customisable segmentation scheme
- Evaluation:
  - Test various use cases such as delegated download, distributed multicast, disruption tolerant download
  - Test platform interoperability
  - Possible use simulation workbench to test on a higher scale

- Current status:
  - Still implementing Android functionality
- Issues
  - Temperamental runtime engine on Android
  - Lack of devices to test with at present
- Possible extensions:
  - Authentication / integrity checking / error correction
  - Dynamic segmentation, locking schemes