Open Platforms

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- *Open API:* a well-document interface to existing platforms. (Possible given Open Source.)

Experimental Community Infrastructure: Today

Cloud

NSFCloud

Network

Client

Apps

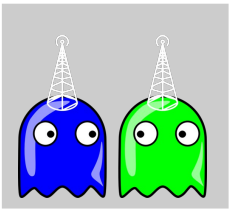
Platform

Hardware

Access Point

Software

Hardware

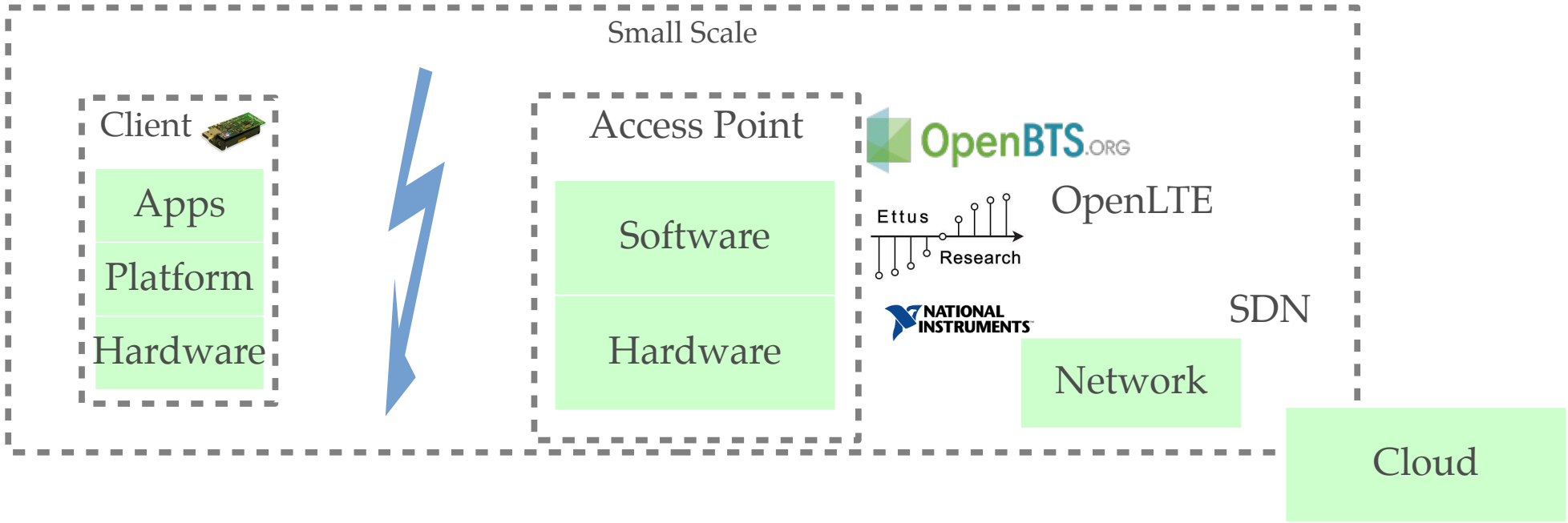


Closed

Open API

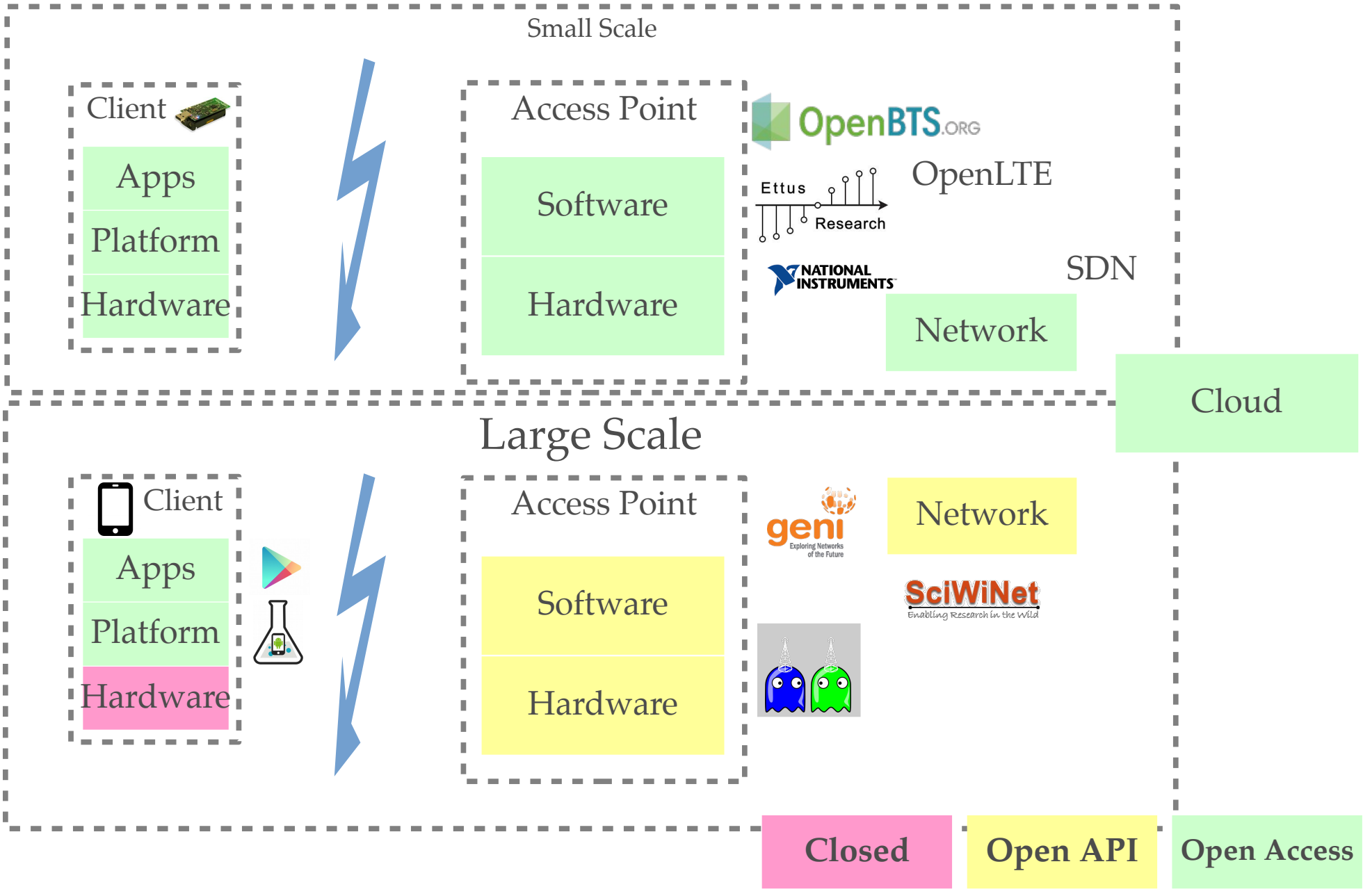
Open Access

Experimental Community Infrastructure: $

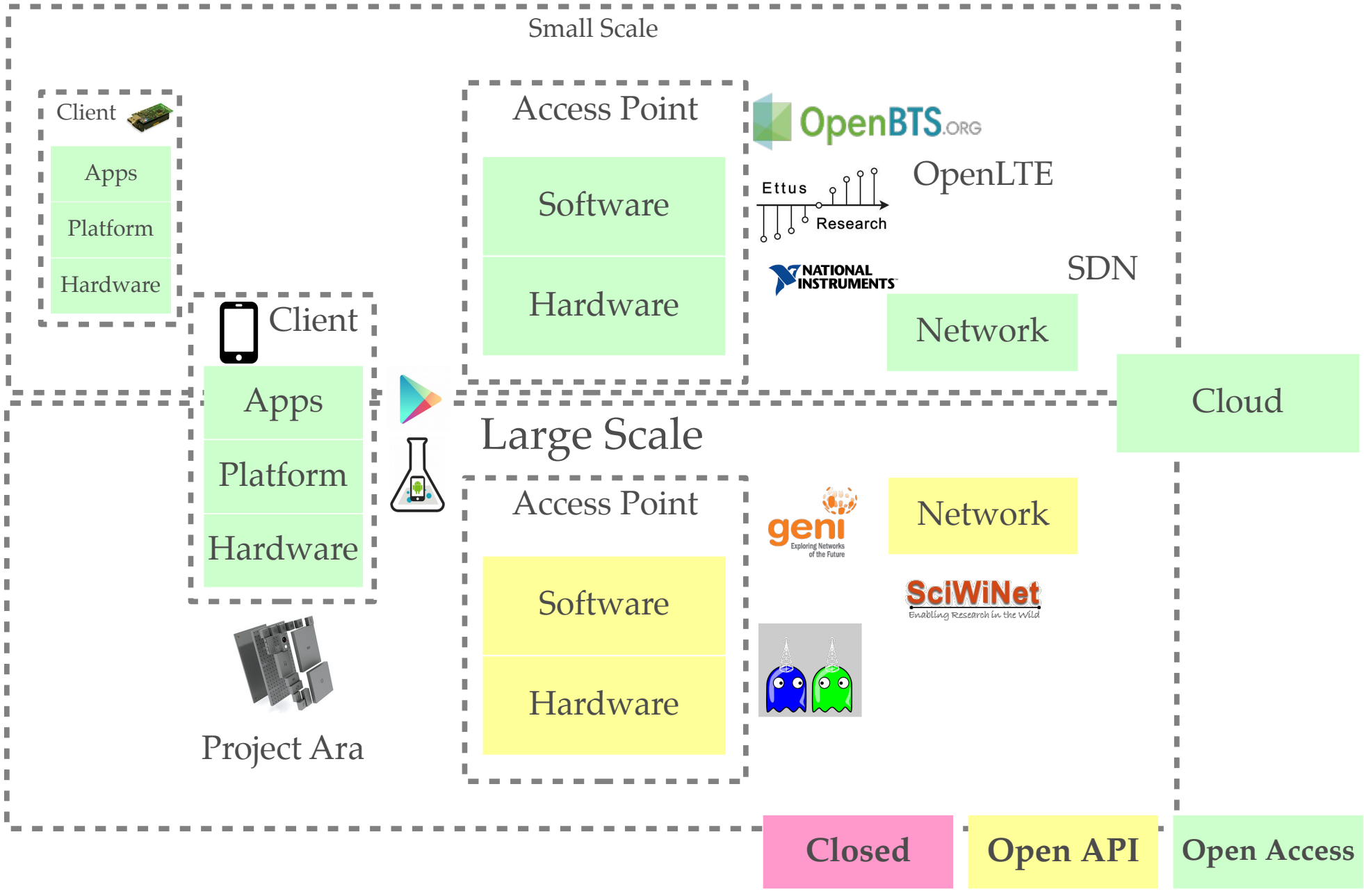


Closed | Open API | Open Access

Experimental Community Infrastructure: $



Experimental Community Infrastructure: $$$$



Overall Recommendations

- Scale and device form factor are blockers
- Overlapping complementary deployment of
  - "as open as possible" commercial infrastructure enabling measurement at scale
  - programmable "wild west" infrastructure enabling modification at as much scale as needed
- User-facing fully-programmable mobile systems hardware remains a problem
  - May be able to partially-leverage vendor efforts at improving hardware modularity