



AirJaldi — Ten Years Later

Jim Forster
jim@airjaldi.net
Dec, 2014

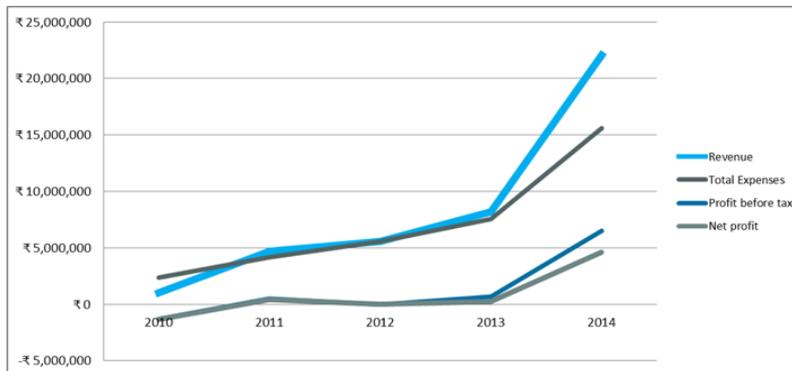
Outline

- History
- Vision, Mission, Objectives
- Current Status
- Opportunity
- Appeal to IRTF



History

- **January 2005:** Started by Yahel Ben-David as personal project to help Tibetan community
- **Oct 2006:** AirJaldi Summit conference, with ~120 people from all over
- **2007:** Non-profit Community Network
- **2009:** Rural Broadband Pvt Ltd created
- **2010-2013:** Growth; 5 states
- **2014:** Profitable



Vision, Mission, Objectives

- **Vision:** A world where all people have access to communication and the Internet, leading to happier lives
- **Mission:** To develop and implement economically and technically sound connectivity and related services for the benefit of people in rural areas
- **Objectives:** 1M people served



Successes and Opportunity

- Successes
 - Technical Training
 - Boot Camp, Intern, Junior
 - Zero to Networking in 6 months
 - Solar powered relays for \$1,200
 - 50 employees
 - Proof of Replication - 8 separate networks
 - Profitable in networks > 18 months old
- Opportunity
 - We are in 10 districts. India has 600; maybe 150 are suitable for us
 - New government promoting NFON/BBNL; could use WiFi last mile



Difficulties

- Indian laws and regulations
 - Sales Tax (per-state, bank deposit required in each state)
 - ISP License
 - Uncertainty about changes
 - \$50K filing
 - \$400K bank deposit required
 - KYC Laws require record keeping, prohibit use without authentication
- Hiring Mid-Level Managers
- CPE Expense (even Ubitquity-class kit is a problem)



Growing the Internet — What Matters?

1. Increase Geographic Range
2. Make it Much Cheaper
3. Make it Much Faster



Appeal to IRTF and Community: 10x Cost Reduction in 5 Years

- Cost reduction is key to wider coverage
- Moore's Law well accepted for chips, storage — why not for service?
- But what are the cost components?
 - People
 - Upstream Bandwidth
 - Equipment
 - Power
 - Regulatory
- What is the current cost?
 - Use existing studies
- What is the existing availability?
 - NetRadar (but blank spots)



AirJaldi *Reaching you.*



Jim Forster
jim@airjaldi.net

Extras



Sustainability

- **Most basic criterion:**
 - Value is greater than costs, and therefore people will pay for it.
 - Adaption scale then drives down costs, increasing % that can afford the service
- **Not really sustainable:**
 - Donation/crowd sourced based activities
 - Volunteering (commendable, but undervaluing expertise does not scale)

