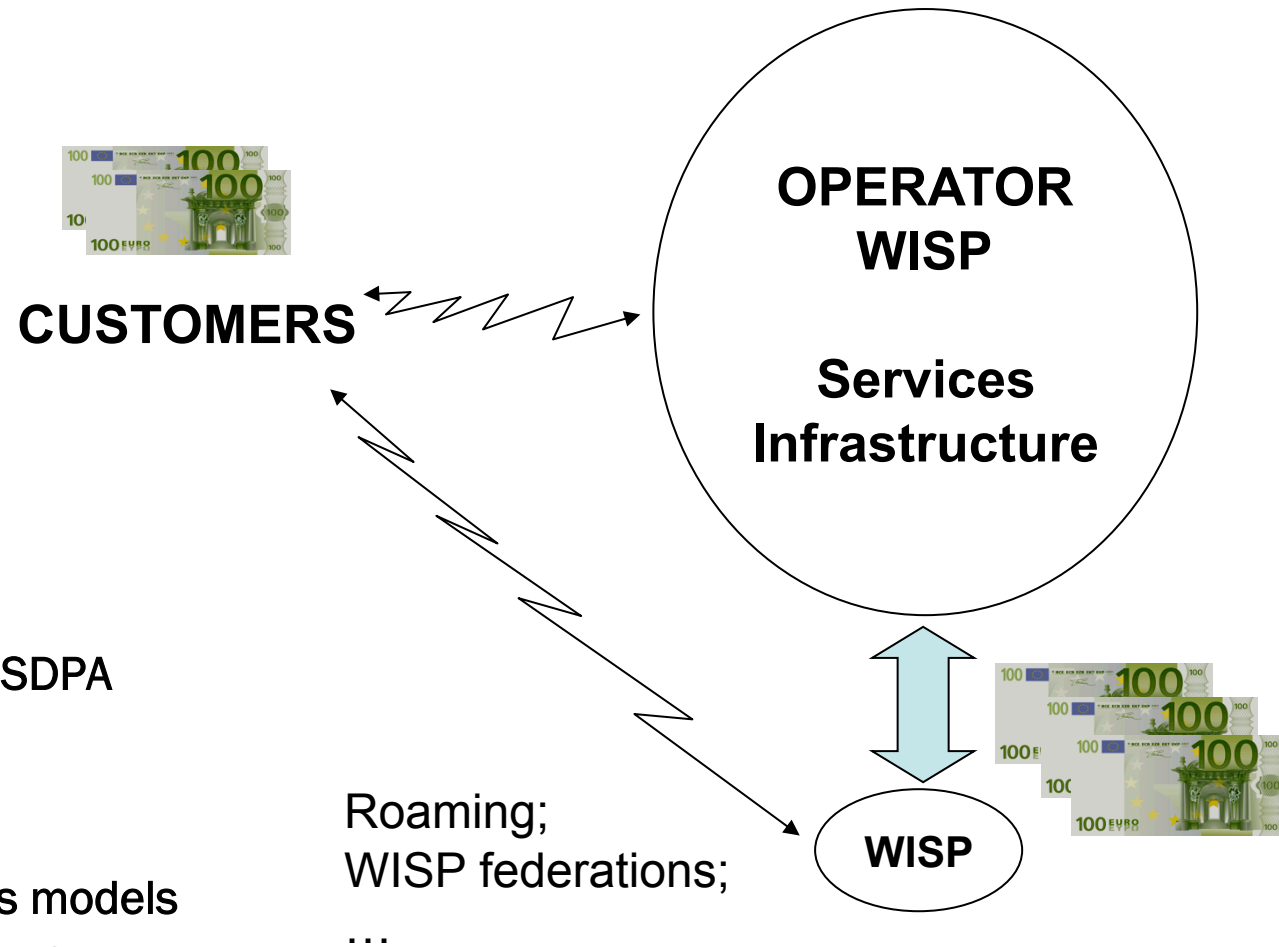


Ninux.org



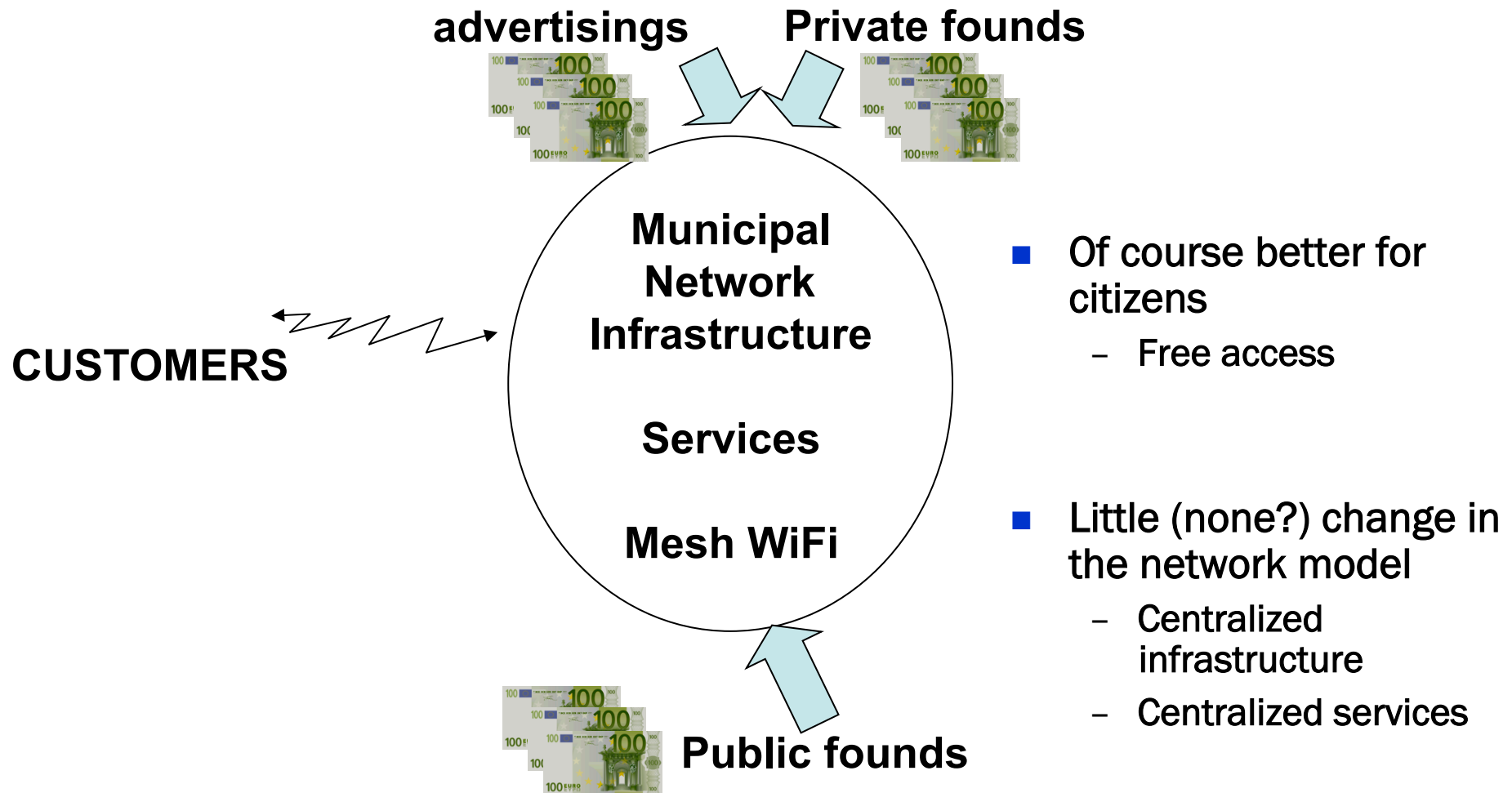
OpenCamp 2010

Traditional Network Infrastructure: commercial wireless access

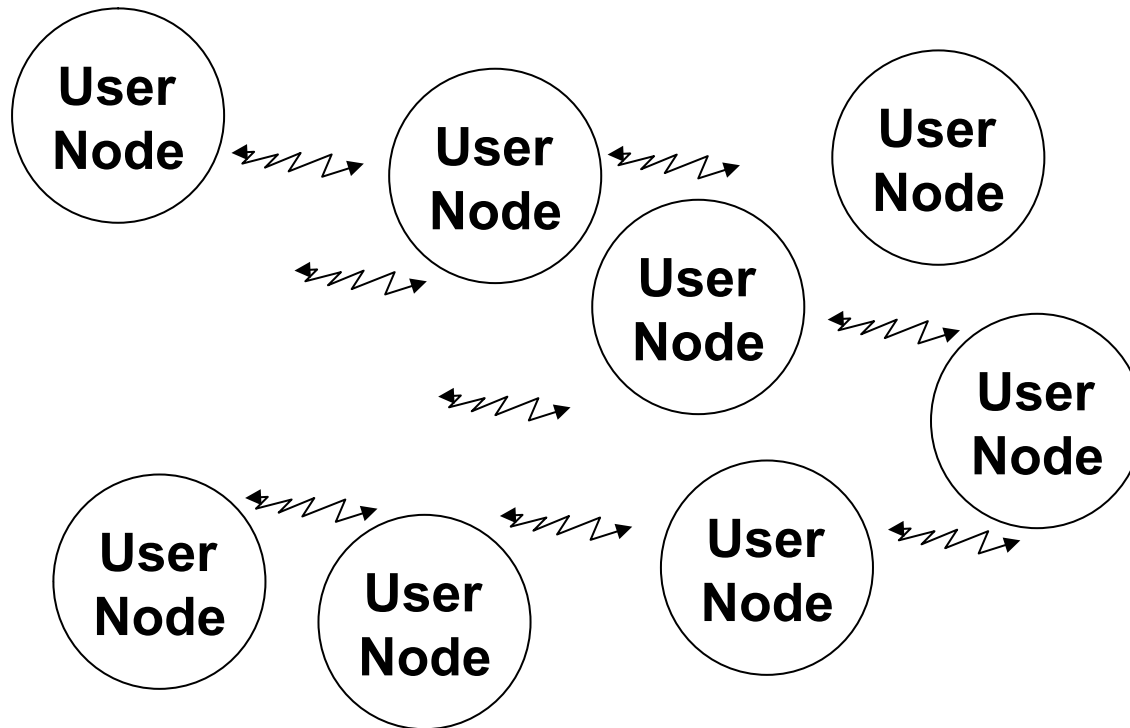


- Big operators
 - GPRS→UMTS→HSDPA
- “small” WISP (wi-fi):
 - Not good business models
 - High costs, little profit

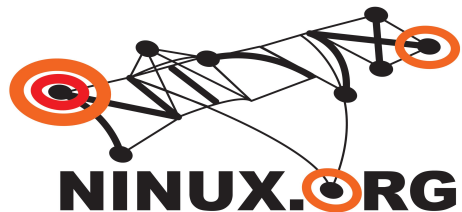
Traditional Network Infrastructure: free wireless access



Wireless Community Network: the new way!



- Users do not “access” the network, they “are” the network
- Users(= network nodes):
 - Volunteers
 - Citizens
 - Communities
 - Business
 - Municipality
- No “operator”
- Technology:
 - Today Mesh WiFi
 - Tomorrow?



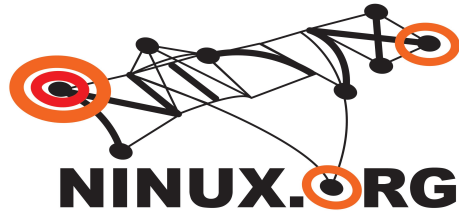
Tutto questo succede a Roma

- Diverse realtà che si occupano di informatica, reti e libertà digitali hanno trovato la loro casa al Fusolab



- Sul tetto del Fusolab partono Links wireless verso altri nodi della rete Ninux.org

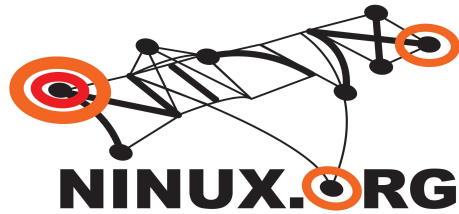




Network Neutrality

- The Network is a common good
 - Open: anyone can join
 - Free access
 - No third parties in the communication (operators)
 - Multi owned
 - New business models in a free market
 - Gives more value to a geographical area

- Looks like the beginning of the Internet !



Roma: Ninux; TuscoloMesh

Ninux Network Map - Mozilla Firefox

File Modifica Visualizza Cronologia Segnalibri Strumenti ?

http://map.ninux.org/

HotMail gratuita Personalizzazione coll... Windows WindowsMedia

Google Ninux Cerca Segnalibri Ortografia Traduci Invia a Impostazioni

Ninux Network Map Guida di Google Maps

Network Map

Collegamento a questa pagina

Mappa Satellite Ibrida

Benvenuto*! Benvenuto* alla mappa della rete Ninux.org!

- [Cos'è Ninux.org?](#)
- [Come si usa questa mappa?](#)

Trova Indirizzo

Indirizzo, via e città, stato o codice postale:

Imposta

- Visualizza nodi
- Visualizza potenziali collegamenti
- Visualizza nodi Internet

Nodi

Untit

Completato

~30 nodi ninux +
~10 nodi tuscolo
Appassionati,
studenti, forte
collegamento con
università
sperimentazione
tecnologie e
soluzioni

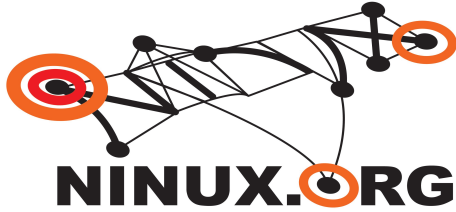


Ninux: snapshot



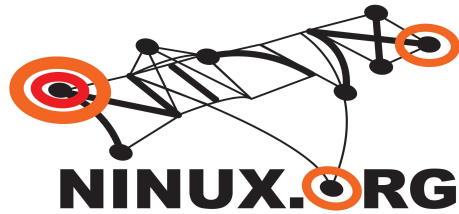
**Approccio:
Tutto o quasi
“fatto in casa”
(antenne, etc)**





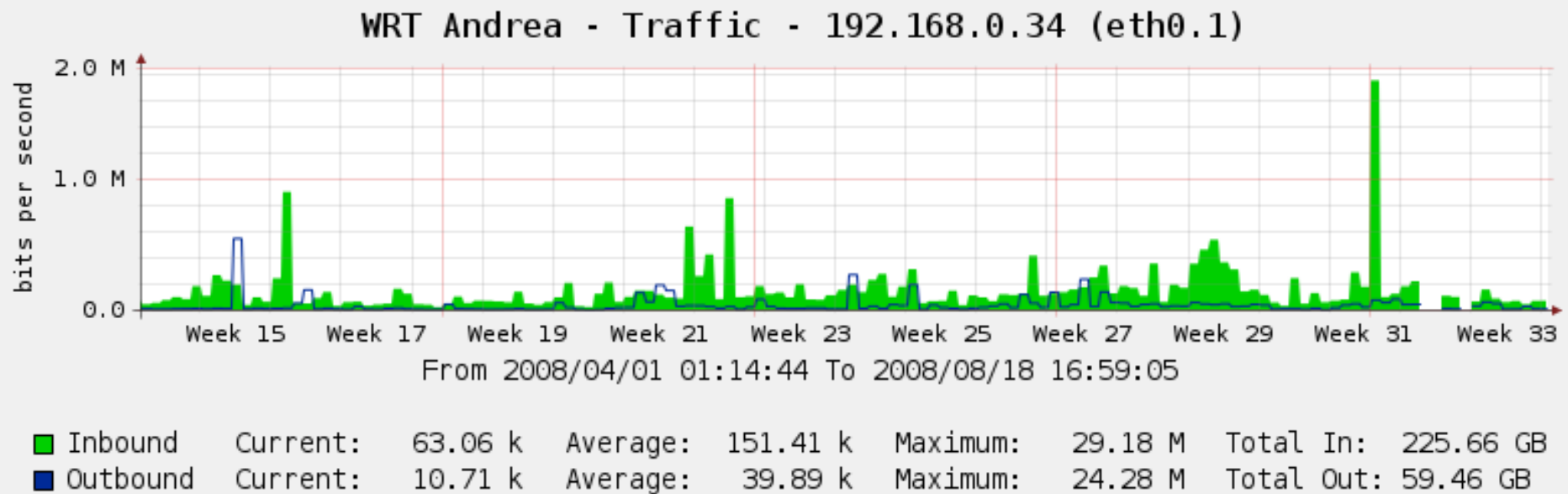
Layer 8 - People

- Is not easy to explain to people what is a Wireless Community
 - People are confused about Internet
 - People are confused about Free Software
 - What is Wiki RSS Jabber torrent ... ??
 - If you are not selling something there is something wrong with you!
- Most people are willing to pay but now willing to learn
 - At least at the beginning
 - Not everyone is like this!
 - Cultural problem, not technological



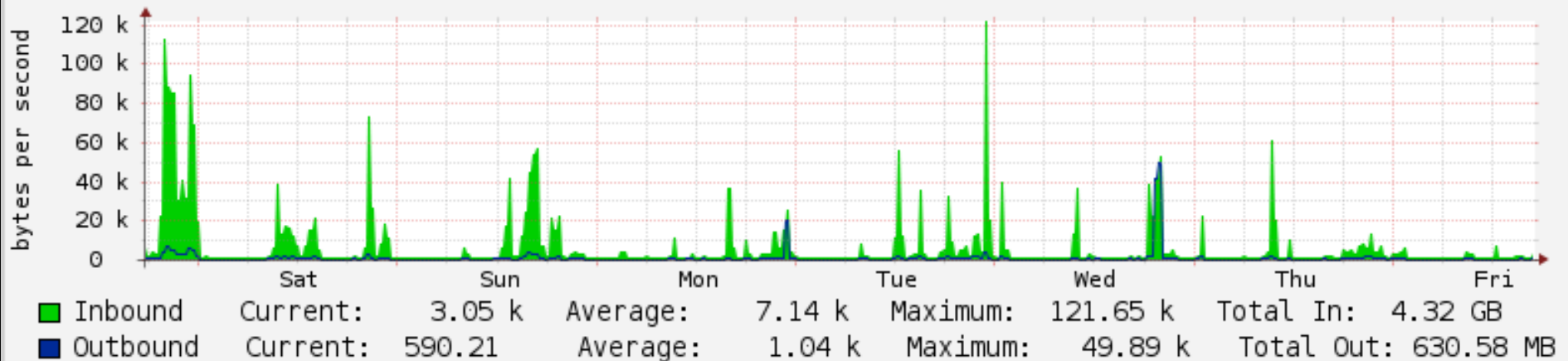
Monitoring

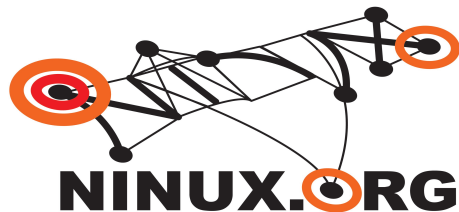
- Monitor network nodes via SNMP
 - Find problems
 - Plan new resources



- Fusolab serves to the community about 4GB/week
 - Data from last week April 2010

TettoFusolab - Traffic - 192.168.69.9 (br-lan)



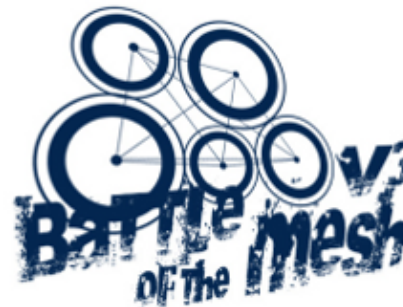


Conclusioni

- Reti wireless mesh comunitarie
 - Fenomeno ancora nascosto, ma in forte crescita
 - Reti libere dal controllo
- Limiti:
 - Scarso coordinamento strategico
 - Ma forte coordinamento tecnico “orizzontale”; soluzioni tecniche forti e mature
 - Al momento ancora scarsa capacità di divulgare e di rivolgersi alla massa
 - Istituzioni: non hanno colto (ancora) la dirompenza del fenomeno
 - Regolamentazione: obsoleta, inadeguata
 - Autoregolamentazione non sufficiente, ma necessaria
- Opportunità
 - Integrazione rete/servizi/località: il mix per le future killer applications
 - Nuovo modello di “fare rete”

■ Wireless Battle Of The Mesh

- 2-6 Giugno 2010, BRACCIANO
- <http://battlemesh.org>
- CAMPEGGIO HACKER sulle tematiche Wireless con ospiti internazionali



■ Giovedì NERD (fino al 27 maggio)

- Ogni giovedì al Fusolab un iniziativa a cura di Ninux, LS-LUG o Partito Pirata



■ Hackmeeting

- 2-4 Luglio 2010 ROMA
- <http://www.hackmeeting.org>

