



## Community network deployment *nodewatcher*

open wireless network of Slovenia

*<http://wlan-si.net>*

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In the beginning of our era ...

... there was chaos!



photo: Zack Rusin



Everything was manual.

Node status.

IP allocation.

Mapping.

Node configuration.



Basic issues:

A few enthusiasts.  
Free-time scarcity.  
(for the network).



Time consuming operations:

Routine repetitive work.

Work multiplication.

Un-coordinated. Chaos.



Enthusiasts were hard to find.

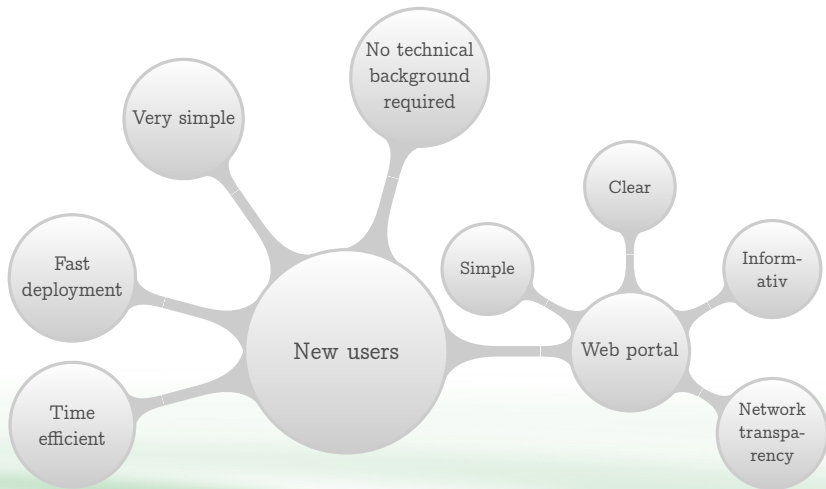
Technical knowledge required.

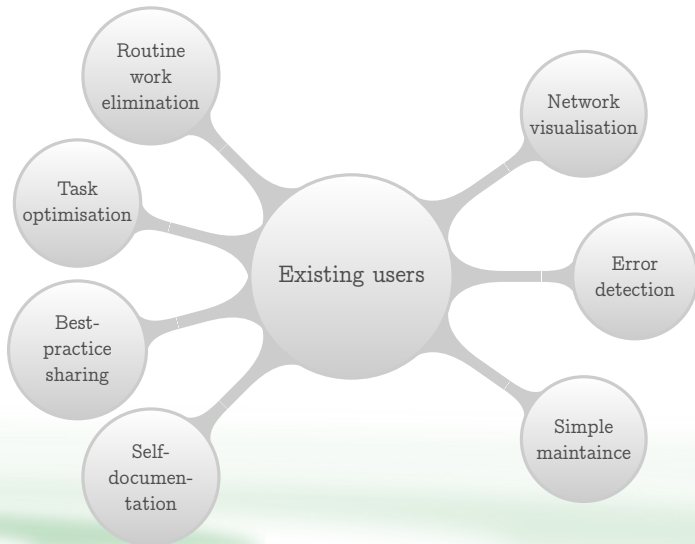
Lack of long-term dedication.



Thus, a new approach was undertaken.









*nodewatcher.*

Automating almost everything.



The technology must be employed in all cases.



Live version: <https://nodes.wlan-si.net>

Development: <http://dev.wlan-lj.net/wiki/Nodewatcher>

Jernej Kos  
Luka Čehovin  
Mitar Milutinović

And others.



Planning.

Deployment.

Monitoring and maintenance.



Planning.

IP allocation.

Connectivity.

Node position.

Other node properties.



Deployment.

Firmware image generator.

Reference configuration generator.





Deployment.

Plug-and-mesh.

No configuration on the node itself.



Monitoring.

OLSR status.

Node parameters status.



Aggregation.

Analysis.

Presentation.



Monitoring and maintenance.

WAN/VPN policy.



Monitoring and maintenance.

Event recognition.

E-mail notification, RSS.



User experience.

As technically challenging as required.



Open and hackable.

Platform/skeleton.

Global development - local deployment

Open source.