



Your provider of Internet connected wireless sensor systems enabling the new emerging market Internet of Things - IoT

- Upwis provides product sales together with full development services (OEM/ODM) – from advisory services to full design and delivery of wireless sensor networks and systems.

Development and sales of application optimized custom micro-solutions for different market demands, from single unique sensors – up to large scale systems with data fusion and presentation.

----Company facts ----

Upwis was founded was oct 2009 by industrial professionals with totally 50+ years of experience of embedded, industrial and wireless unique solutions; Competence for embedded RF, software and hardware.

A Network of partners in EU and Asia is used for manufacturing of standard electronics or microsystems for rugged applications. Project oriented focus for solution creations together with customers and a scalable network of local and international partners.

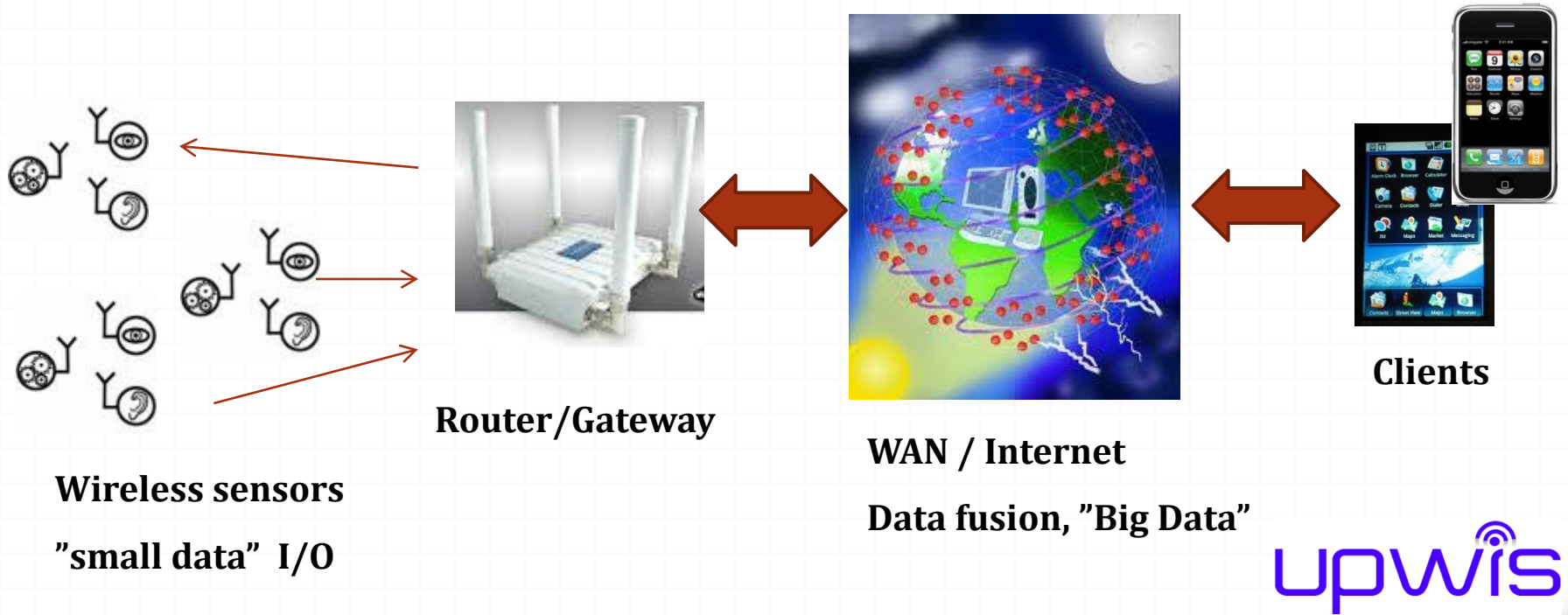


Internet of Things "applied"

- Smart Cities – sustainable environment, secured society, environmental control, traffic flow control,
- Smart Grid – energy network control, load balancing, small cooperating energy suppliers,
- Smart factories- resource thin
- Intelligent vehicles, proactive "wear aware" maintenance, security functions, anticollision, transportation
- Health care, home care, remote surveillance and sensors
- Cooperating society, personal sensors
- Smart buildings, homes – energy, comfort and security

UPWIS provides application optimized systems for the Internet of Things market

Enabling communication within a WSN (wireless sensor network) and to WAN/Internet, dedicated routers provides secured links to databases and application services. Data access and control from Mobile (Android, iOS) or fixed clients enables new applications.



Design and product focus, R&D

Wireless sensors systems /Internet of Things is a natural extension of Internet , but due to its nature with resource limitations in power, computing and communication performance - existing solutions for security and authorization of data exchange with users and data providers must be improved and adopted.

Using IPv6/6lowPan and encryption IPsec to protect and assure data integrity together with authorization schemes, the connection between WSN and Internet may preserve both integrity issues and enable sensor based charging schedules.

Upwis participates in academic and industrial research projects to find the best solution – how the ideal wireless sensor node could be designed – one conclusion is that **no ideal WSN node** is easy to design since all applications has different requirements and limitations.
(price,size,energy,sensors,RF,..)

Therefore, a modular approach was taken – centered around a core of "state of art" scalable 32bit ARM/Cortex cpu architecture + Contiki operating system and 6lowPan . This would reduce configuration efforts for most applications – and allow miniaturization to Si on Si SoC.