



Short presentation of ScatterWeb GmbH



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Software and Hardware for
next generation wireless
networks



ScatterWeb product:

Software and Hardware for wireless data gathering and control

Smart Metering

Measuring energy
consumption

Energy Management

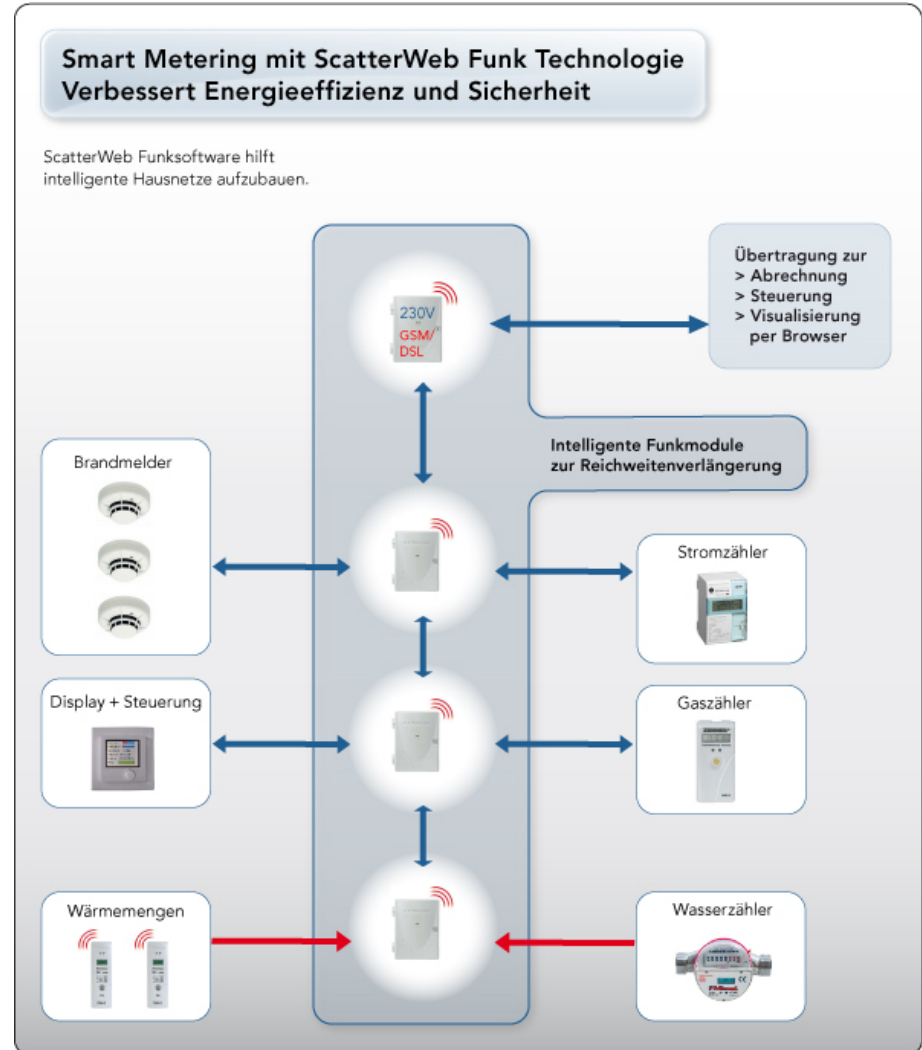
Controlling
consumption

Smart Building

Integrating functions
for convenience and
security

Application Areas:

- Heating Cost distribution
- Power Meter
- Water Meter
- Fire Detectors
- Gas meter
- In-House-Displays
- HVAC control

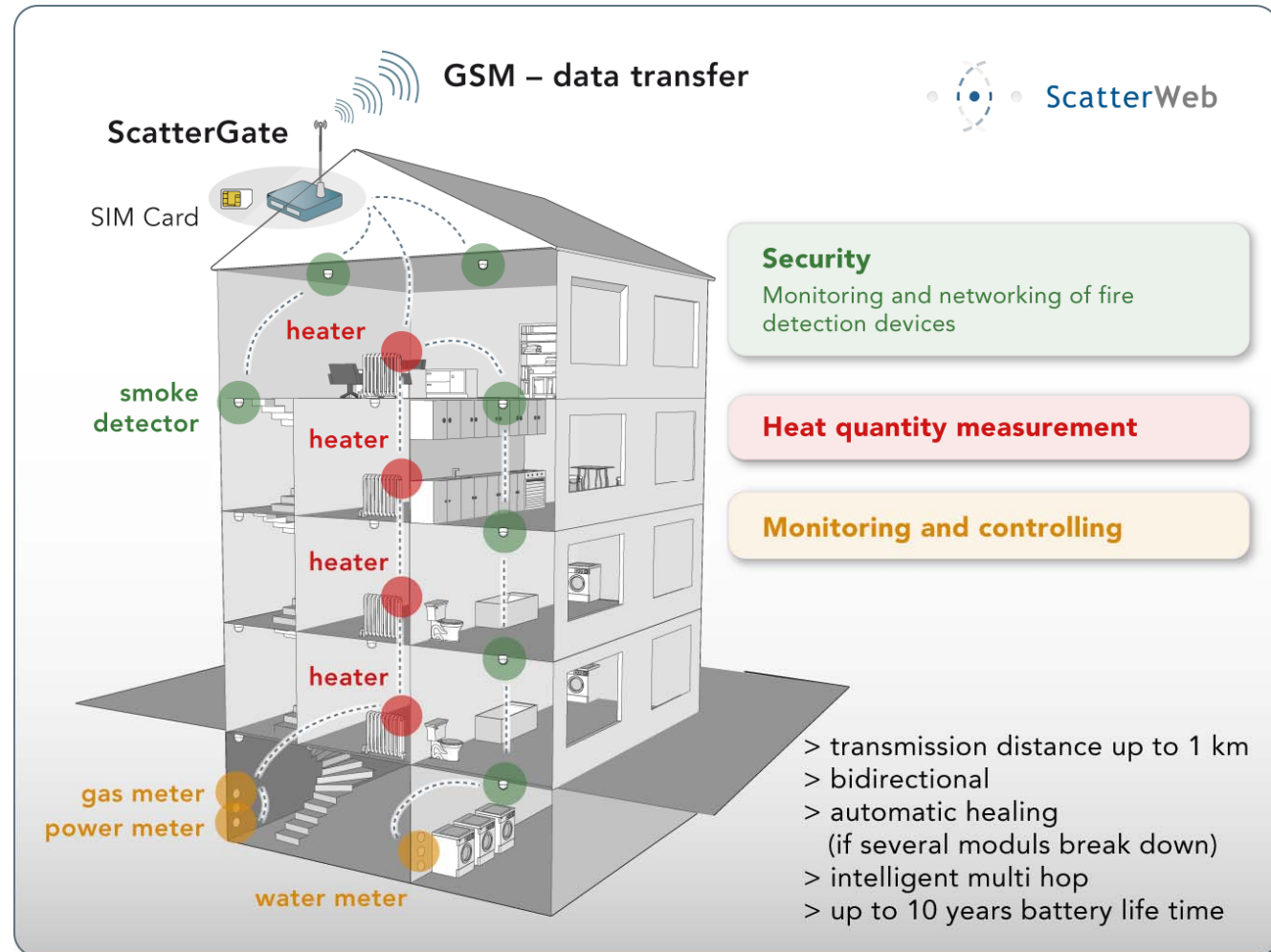




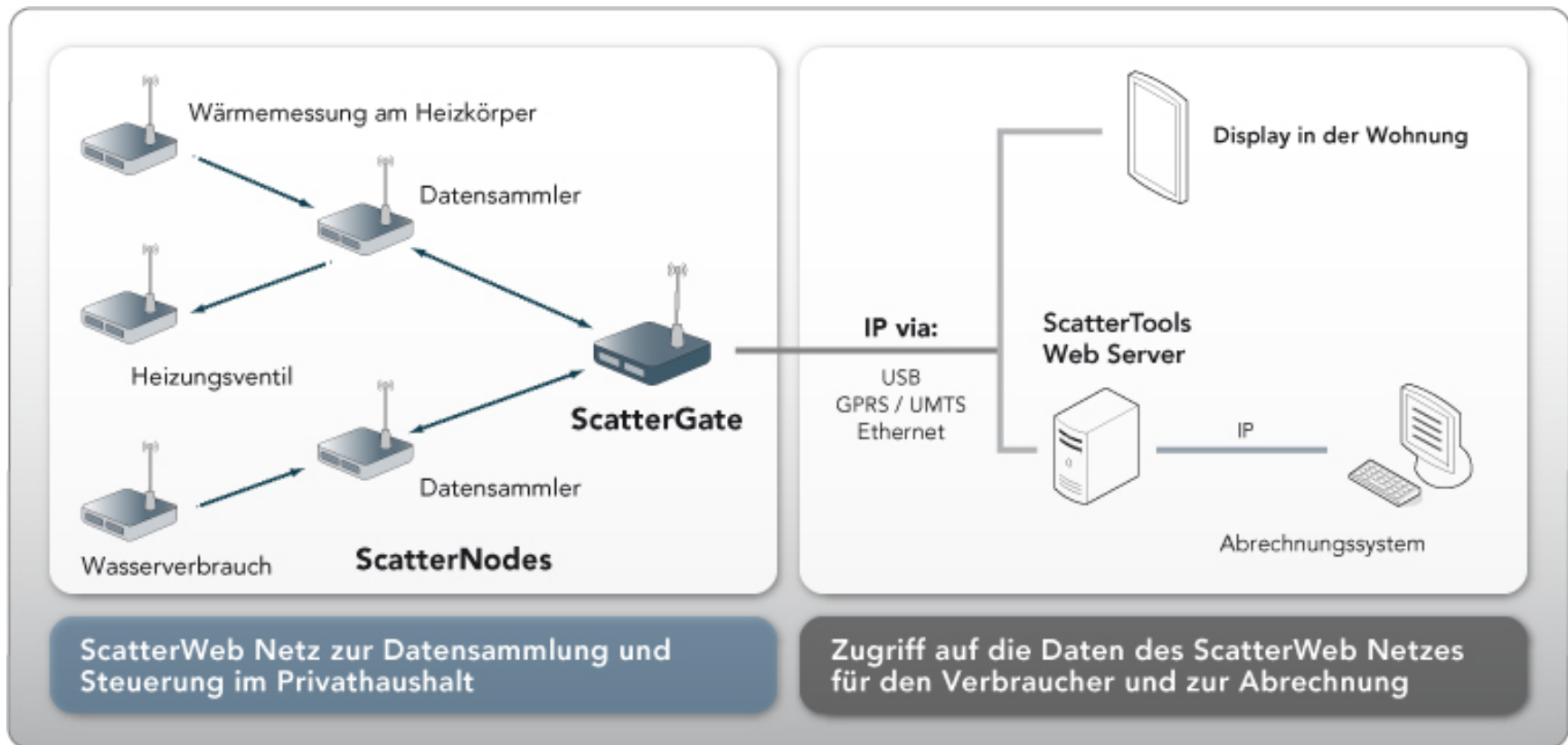
Networking
different devices

Step-by-step-
progress

In-house-Displays
as well as web-
based information



ScatterWeb network principle





ScatterWeb provides the software for intelligent, next-generation wireless networks -

you may have your own radio hardware





The three components of a ScatterWeb solution

- **ScatterGate**

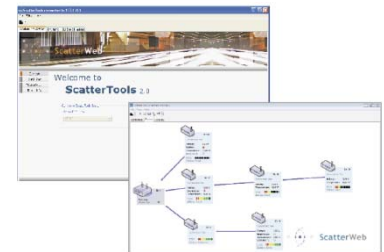
Gateway between wireless network and backend

- **ScatterNode**

Core wireless module with interfaces to analog and digital sensors and actors

- **ScatterRights**

Licenses of the ScatterWeb network technology, for OEM partners with own hardware





ScatterWeb Starterkit

- » 5 Nodes with Sensors:
 - Temperature
 - Vibration
 - Movement
 - Brightness
 - external Sensor Interface
- » 1 ScatterGate Gateway USB
- » PC Software ScatterTools
- » Installation Documentation





Thank you!

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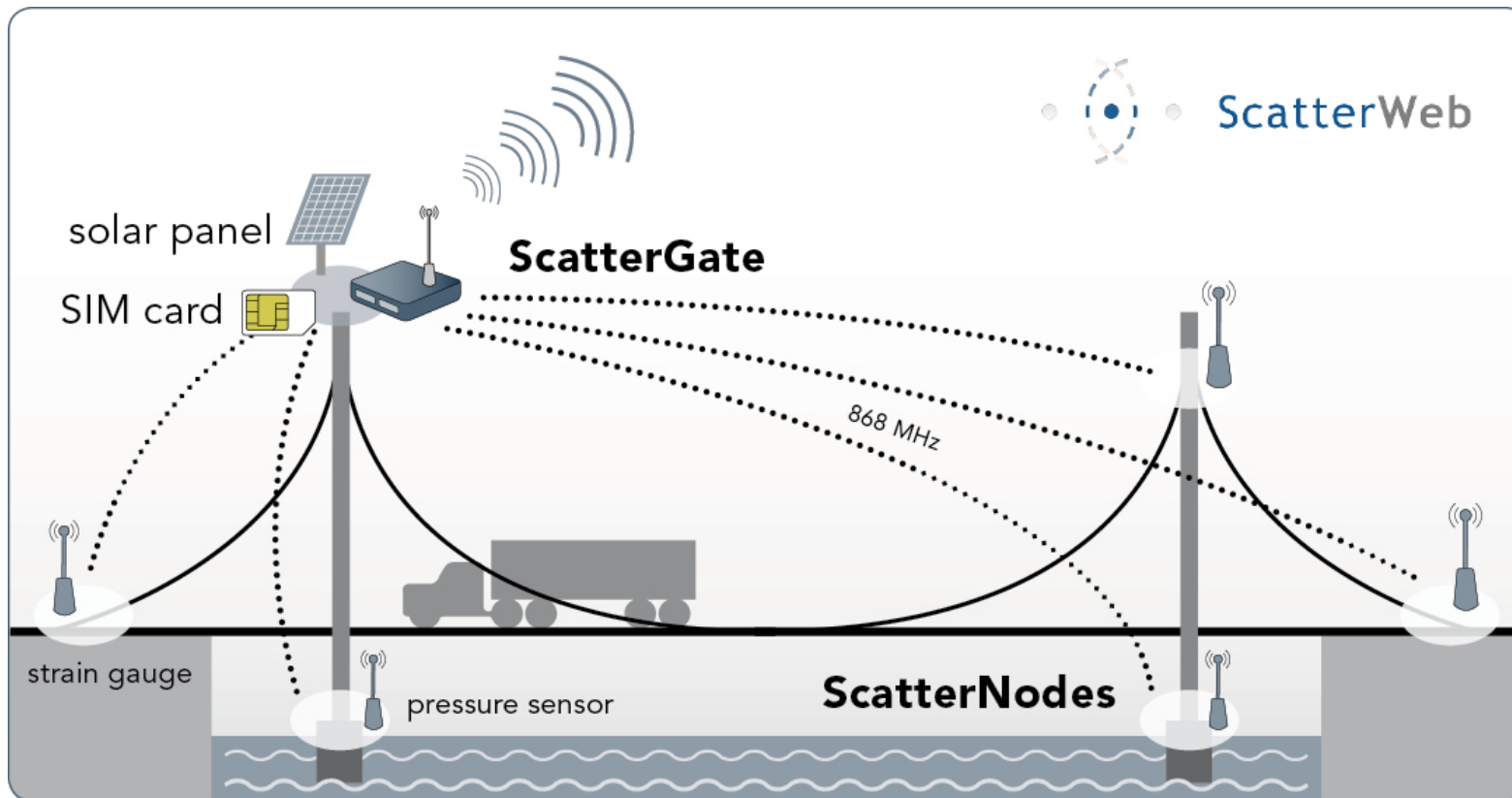
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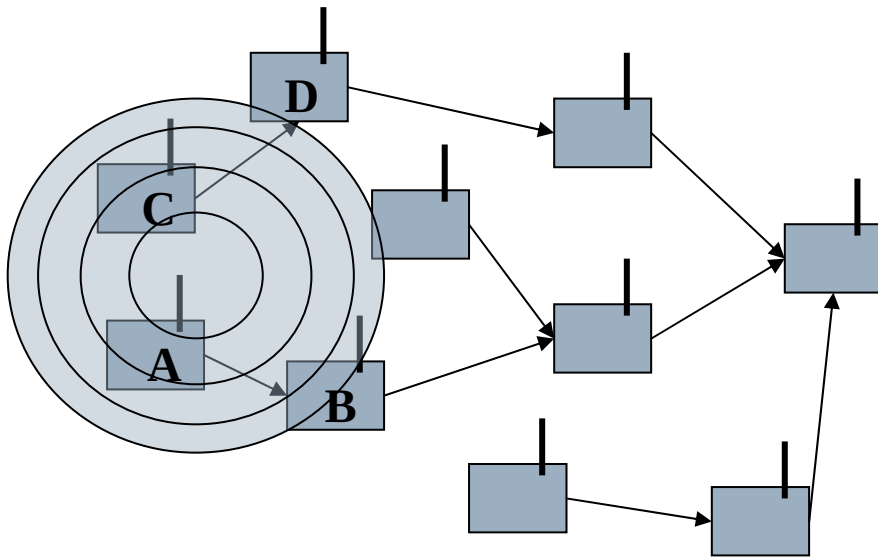
Structural Health Monitoring: Another Application Area for ScatterWeb





Intelligent networking saves energy and increases reliability

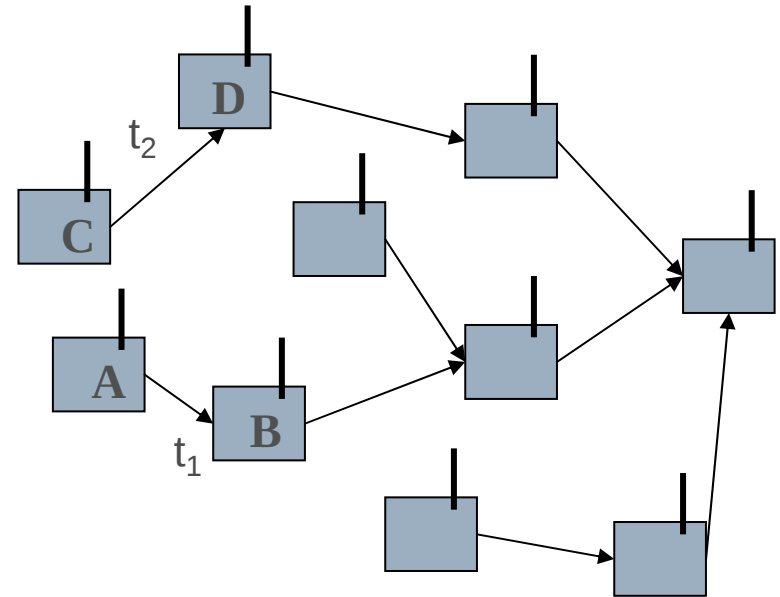
Example: A and C want to transmit some sensor value at the same time



Simplistic approach:

A and C try to send at the same time

Result: Collision, retransmission, energy is wasted



ScatterWeb time-slot scheme:

Transmissions A->B and C-> D do not collide as they are at different time slots



- » Low latency, fast forwarding inside the network
- » High energy efficiency, long battery lifetime due to low duty cycles (transceiver switched off most of the time)

