

# IoT Nuts & Bolts

Addressing the practical aspects of the Internet of Things (IoT): your toolkit for opening a new world of possibilities through distributed data sources connected to the internet.



- Bring your things to the internet
- Hands-on approach to the set up of IoT applications for your business
- Use standard elements to keep things simple, sustainable and guarantee a low time to market
- Create a prototype to explore the business case you choose
- Play with IoT to discover innovative business models
- Easy access through user interfaces for better end-user experience
- Data management
- Cost control
- Security aspects
- Vendor selection

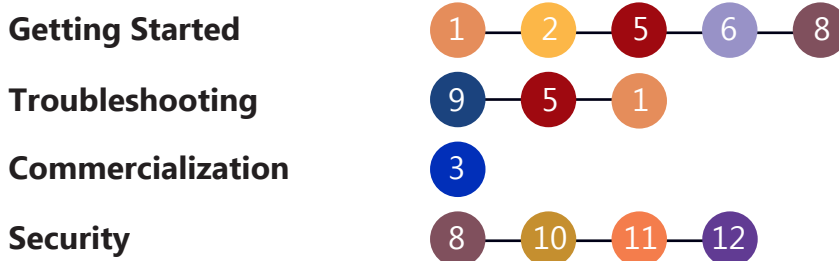
If you have devices that you want to monitor, we can help you to realize the communication chain: communication protocols, authorizations, databases, identification, analysis, filtering, data streaming, display and delivery.

Starting with an audit workshop, we work with you to find which combination of **Quantum's IoT Nuts & Bolts Menu** items best fit your needs. We create a roadmap and then – step-by-step – go about achieving the desired results. By finding the right combination of standard elements, we're able to make your investment a low-risk way to add value to your organization.

## Possible Components

- 1 **Architecture and pricing** - specification of the communication chain, define connections
- 2 **Cloud service** - selecting the right one, collecting and sending data, storing in the cloud
- 3 **Commercialization** - foundation for commercial front end services or applications
- 4 **User interface and user experience** - fit for purpose, optimized to circumstances
- 5 **Simulation of the IoT source** - develop the setup before having real data
- 6 **Data management** - hot storage, cold storage and archiving
- 7 **Edge devices** - vendor selection, specification, embedding
- 8 **Protocols** - choosing the right protocol for each communication purpose
- 9 **Tuning** - address capacity problems or errors, scale or improve
- 10 **2-way communication** - write back to control the source
- 11 **Inter-device communication** - real-time decision support on the edge
- 12 **Security** - fail-safe operation, prevent unauthorized access to devices and data

## Typical Combinations



To learn more about how to get started and which components are right for your business, contact us at [info@qbis.ch](mailto:info@qbis.ch).