

## Collective Intelligence

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#### – achieving more together

Have you recently gazed up at the sky and seen the vast blue? Have you seen a few birds flying, forming a flock as if by magic? How they circle around in a swarm and move dynamically with one another.

I myself watch over and over again enthusiastically how a simple bird can form such **an intelligent unit**. How birds communicate, change their shape and reshape themselves in a fraction of a second. It's like **an invisible bond** connecting them together.

A **harmonious whole** of a flock emerges from the individual bird.

It took nature millions of years to develop swarm intelligence. The result is a **decentralized** intelligence.

We took inspiration from this and developed a modular, decentralized system. It enables a loose coupling of intelligent devices in a common IOT network. I.e. you can connect as many devices as you want.

Like a flock of birds, each device acts **independently**. There is no leader that tells you where to go, and yet they form an **intelligent unit**.

Analogous to the bird in the flock, which uses the wind of the bird in front to be able to fly more easily, we use the information of the upstream and downstream systems and our own intelligence. We consciously use these synergy effects and thus increase efficiency.

The swarm has another advantage: security. Even if one or more birds fail, the **loss is made up** and the flock **remains completely in tact**.

The whole is more than the sum of the individual, because the **cluster of intelligence** can master significantly more complex challenges than an individual could ever be able to.

One cannot anticipate all variations with a single central system. A single bird will hardly make it to Africa - in a flock, however, it is a solvable problem.

The **ingenious thing about nature** is that it brings out simple solutions. **A little information is enough to act independently** and interact with the swarm. E.g. "Keep the same distance from your neighbor" or "fly in a **uniform direction** .

Our solution also uses a clear and simple structure: **instead of explicit control commands**, we assign **clear work orders** to the individual devices, which can be **processed there independently**.


If you want to set up a new system, the greatest danger is that this system may no longer exist in ten years and that manufacturer loyalty will limit your choices. You can also limit product-specific implementations and hinder closed systems in their future viability.

Together with us you **regain this freedom**, because **through the open and decentralized approach** you can operate any device with any protocol in a common intelligent network.




So you can't go wrong, because you can **enhance your system in an agile way** and **adapt it individually**. In short: **with us you stay free** for changes and take off towards the future.

**be smart. be free. by open IoT.**




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