



Join now and make it happen

Electric bikes development:

On Time?
On Spec?
On Budget?

Developers

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Present

Bicycle manufacturers developing electric assisted bicycles face high development costs since every component of the system – battery, motor, controller, charger – must fit together and therefore is often customized and not interchangeable between models. If for instance the battery technology is changed, then other parts must be changed as well, like the battery management, charger, charger connectors and motor control software. With production of each component this results in small group production and therefore high costs. If the bicycle manufacturer uses system components from suppliers he becomes dependent on their availability and cannot easily choose from a variety of competing products due to their incompatibility. Many different custom components result in increased need for storage capacities for replacement and assembly items. With the current plugs and protocols, small series or custom built pedelecs and e-bikes are expensive to develop.

Product developers have tough compromises to make: the desired functions and the quality of the product compete with the available development time and budget.

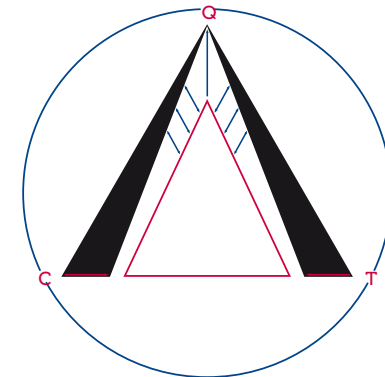
With EnergyBus

The **EnergyBus** solves this issue as it allows manufacturers to bring products to the market with great functionality, quality in a short development time, with low costs. This is achieved through communication between the components. It enables them to interact and change their functionality depending on the controller's capabilities. For example, one charger could fit all batteries since they communicate the needs through the bus. This increases the life of the product because the components are used according to their specifications. On a variety of different products the same system can be used, single components can be exchanged. Manufacturers have redundant supply choices because the components are exchangeable. Since development is easy, new markets can be created as specialized products become profitable. Special customer wishes can be quickly fulfilled.

More applications for a component results in larger lot size and more profit.

EnergyBus guarantees a safe, expandable and compatible system.

EnergyBus e.V. is a joint effort to specify a plug and communication standard for light electric vehicles. **Every company from the industry is welcome to join and take part in our mission.**



Q Quality, Functions, Safety
C Costs
T Time