

Welcome to 2nd Workshop

Prof. Dr. Jörg Ettrich



programme

- Welcome & Introduction
- The “Stork” Drone
- The “Delta” Drone

45 min. | coffee break

- Manufacturing, Mechanical Simulations & Wing Optimization
- Embedded Air Quality Sensing
- Additive Tooling

60 min. | lunch break

- Electronic Design and Automatic Flight Control
- Autonomous Control Strategy
- Optimal Load-Distribution for Non-Planar Wings

120 min. | coffee break

- Conclusions & Outlook

closing | open end

programme

- Welcome & Introduction
- The “Stork” Drone
- The “Delta” Drone

Helicopter flight demonstration

- Manufacturing, Mechanical Simulations & Wing Optimization
- Embedded Air Quality Sensing
- Additive Tooling



Drone exhibition

- Electronic Design and Automatic Flight Control
- Autonomous Control Strategy
- Optimal Load-Distribution for Non-Planar Wings

Drone flight demonstration

- Conclusions & Outlook

“Hands-On” Helicopters & Multicopters

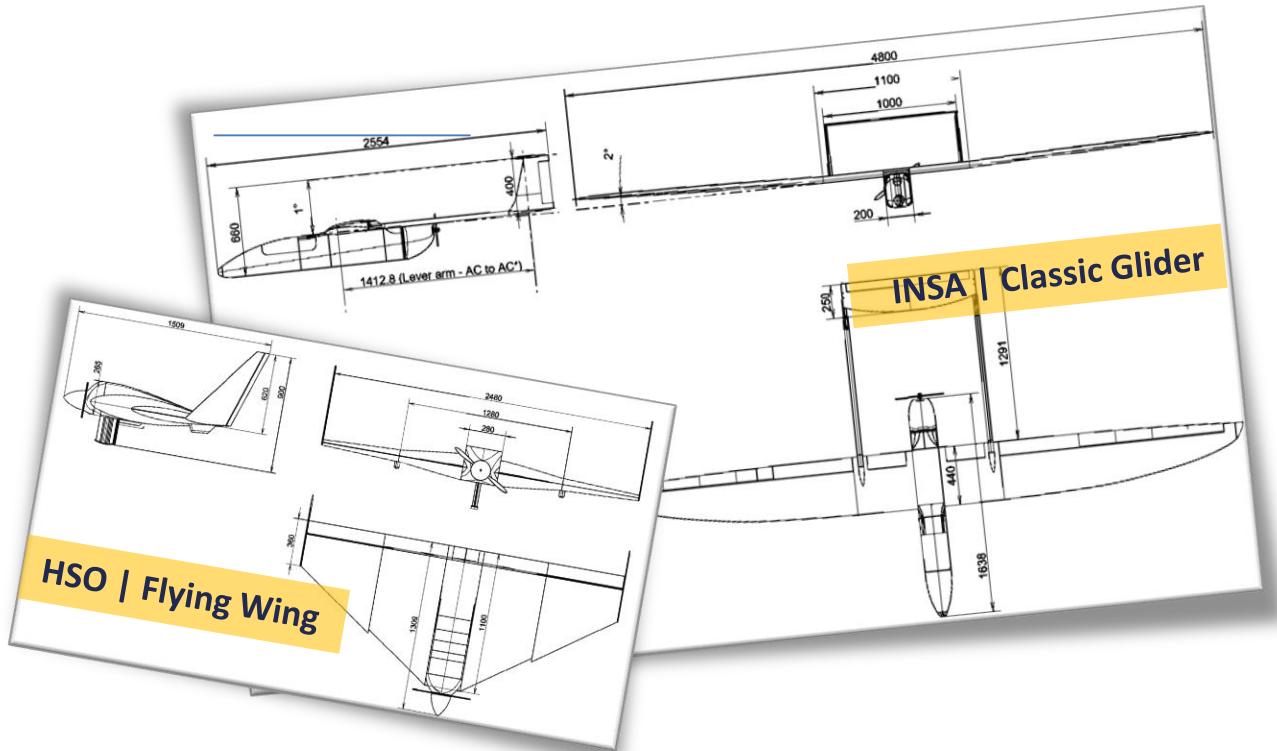
Roadmap

Different Specifications – Different Designs



Roadmap

Different Objectives – Different Design Philosophies



Roadmap

Design & Manufacture



two build strategies



Roadmap

Different Specifications – Different Designs



Roadmap

Maiden Flights & Testing

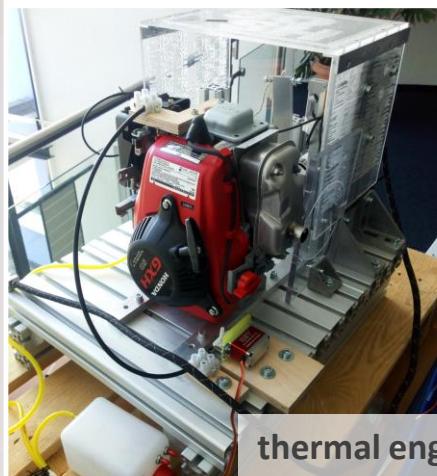
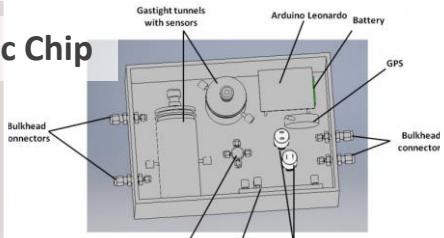


April 2018 ...

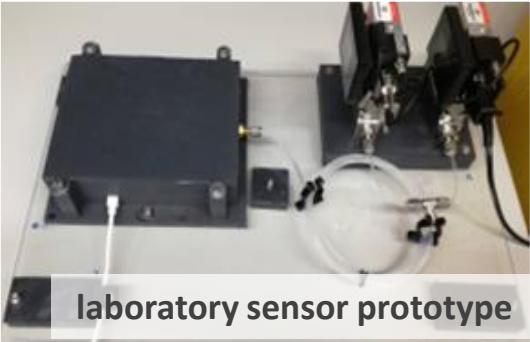


Current Activities

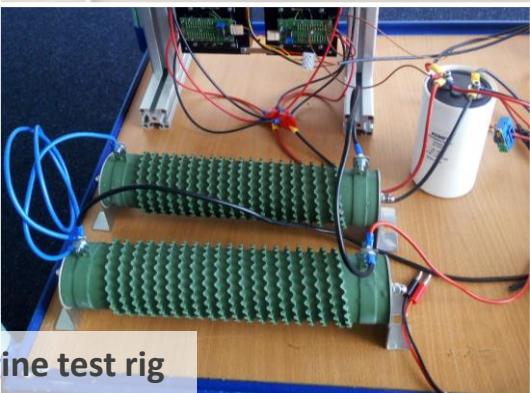
There is still work to do!



thermal engine test rig



laboratory sensor prototype



what's next?



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Drone flight demonstration

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“Hands-On” Helicopters & Multicopters

**Thank you for your
attention!**