

# MATLAB EXPO 2016

**Vernetzung von  
Forschung und  
Lehre und  
Unternehmertum**

Dr. Joachim Schlosser  
MathWorks



## Airnamics Develops Unmanned Aerial System for Close-Range Filming with Model-Based Design


“With Model-Based Design our three-engineer team found more than 95% of control software bugs before the first flight. We used the test flights to increase our Simulink models’ fidelity and isolate remaining bugs with high precision. The result is a safer, more reliable, and higher-quality product.”

Marko Thaler  
Airnamics



Airnamics co-founders Marko Thaler and Zoran Bjelić with the R5 MSN1 prototype after its first flight.

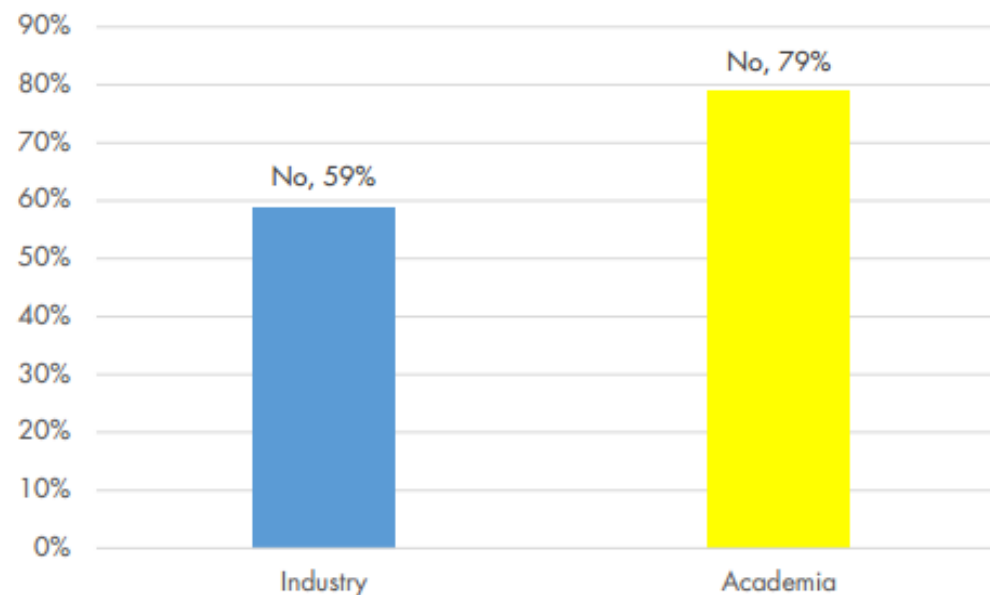
**Use** existing **tools**  
in and on **MATLAB** with  
**hardware** instead of re-  
inventing the wheel.



As concert halls for orchestras,  
MATLAB is part of the scientific infrastructure of  
academic and research organizations

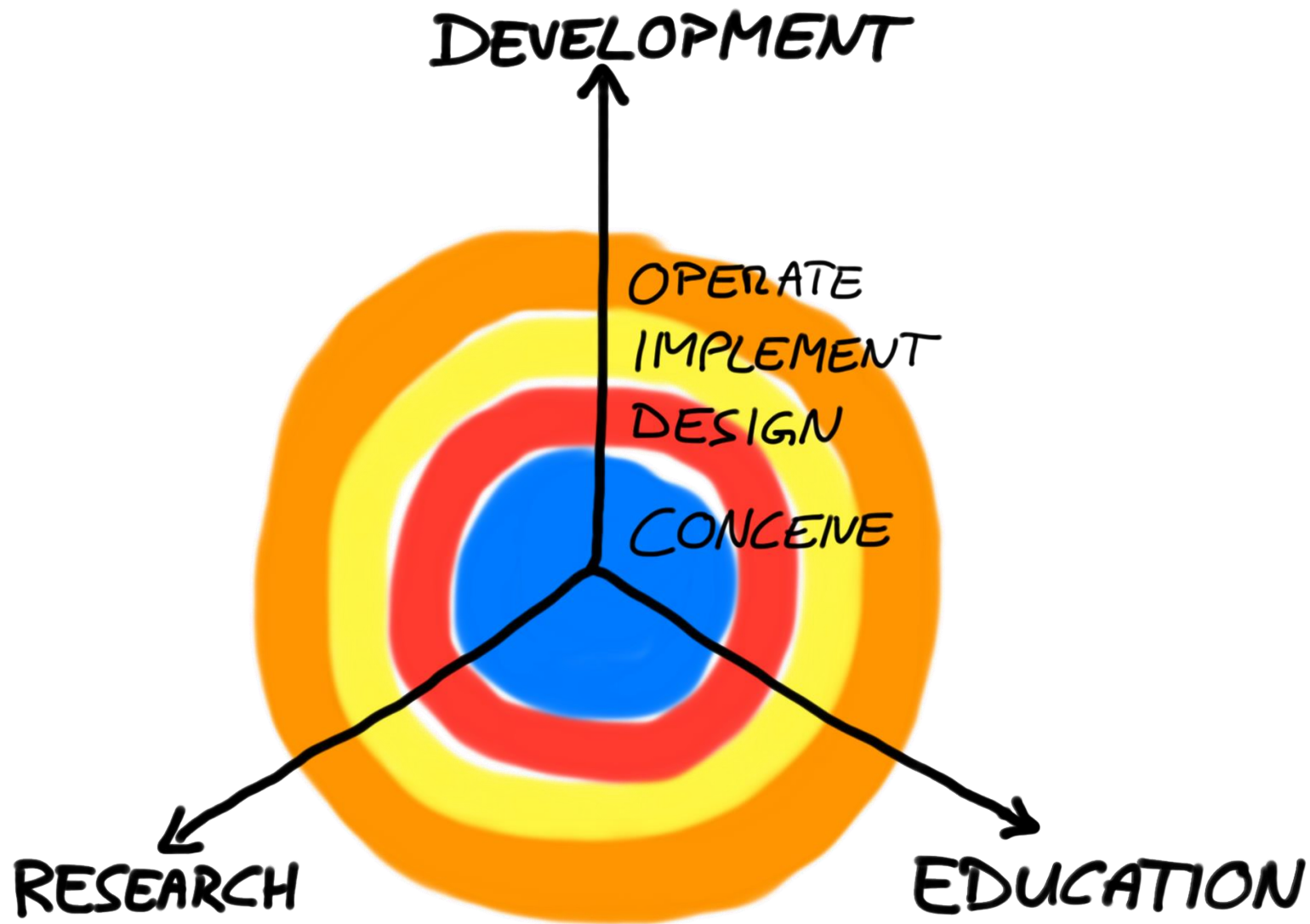


## STEM Skills Survey, UK

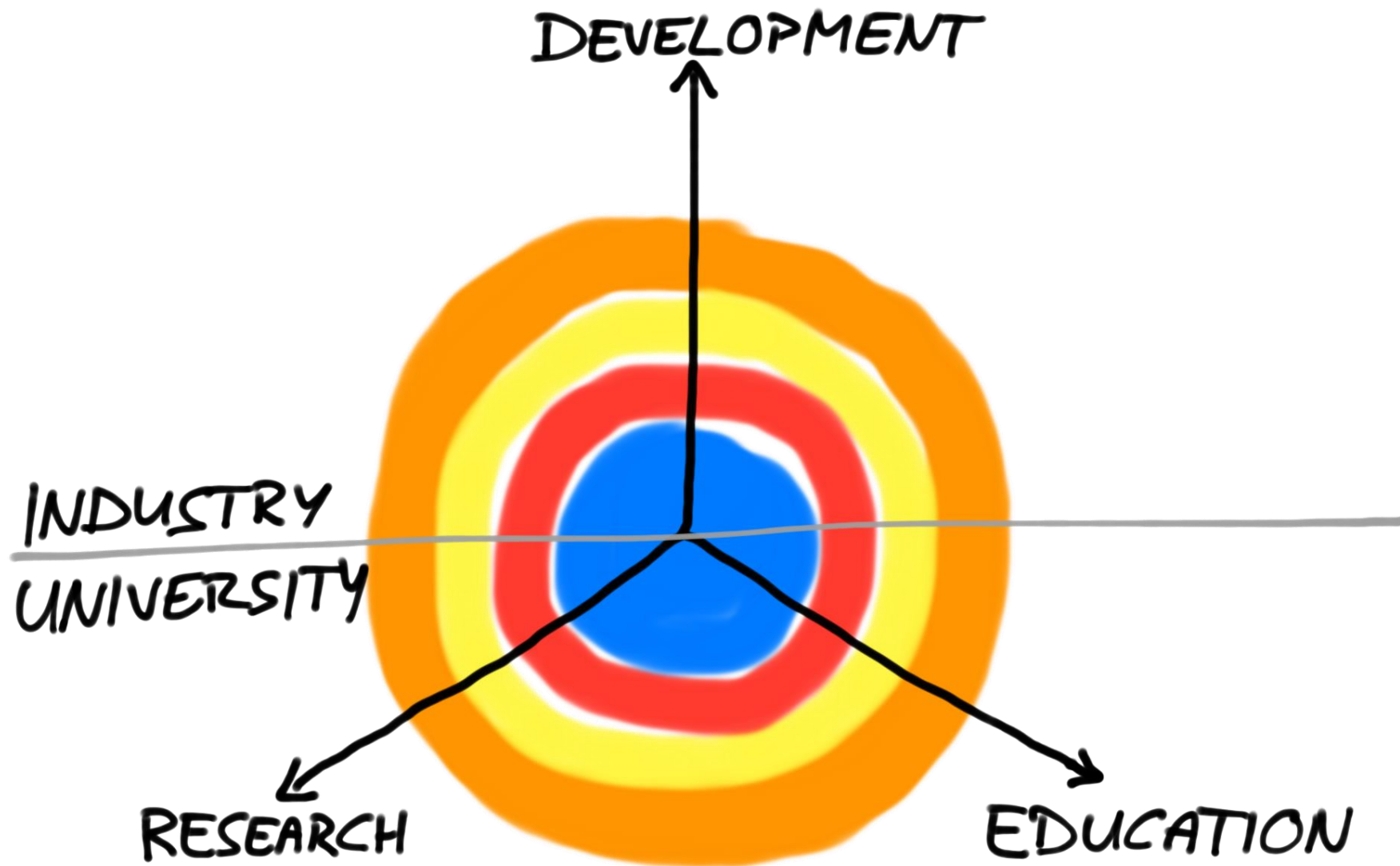


“Are there enough skilled candidates from universities to meet STEM employees’ requirements?”  
Short Answer: **No.**

# Supporting Research Programmes

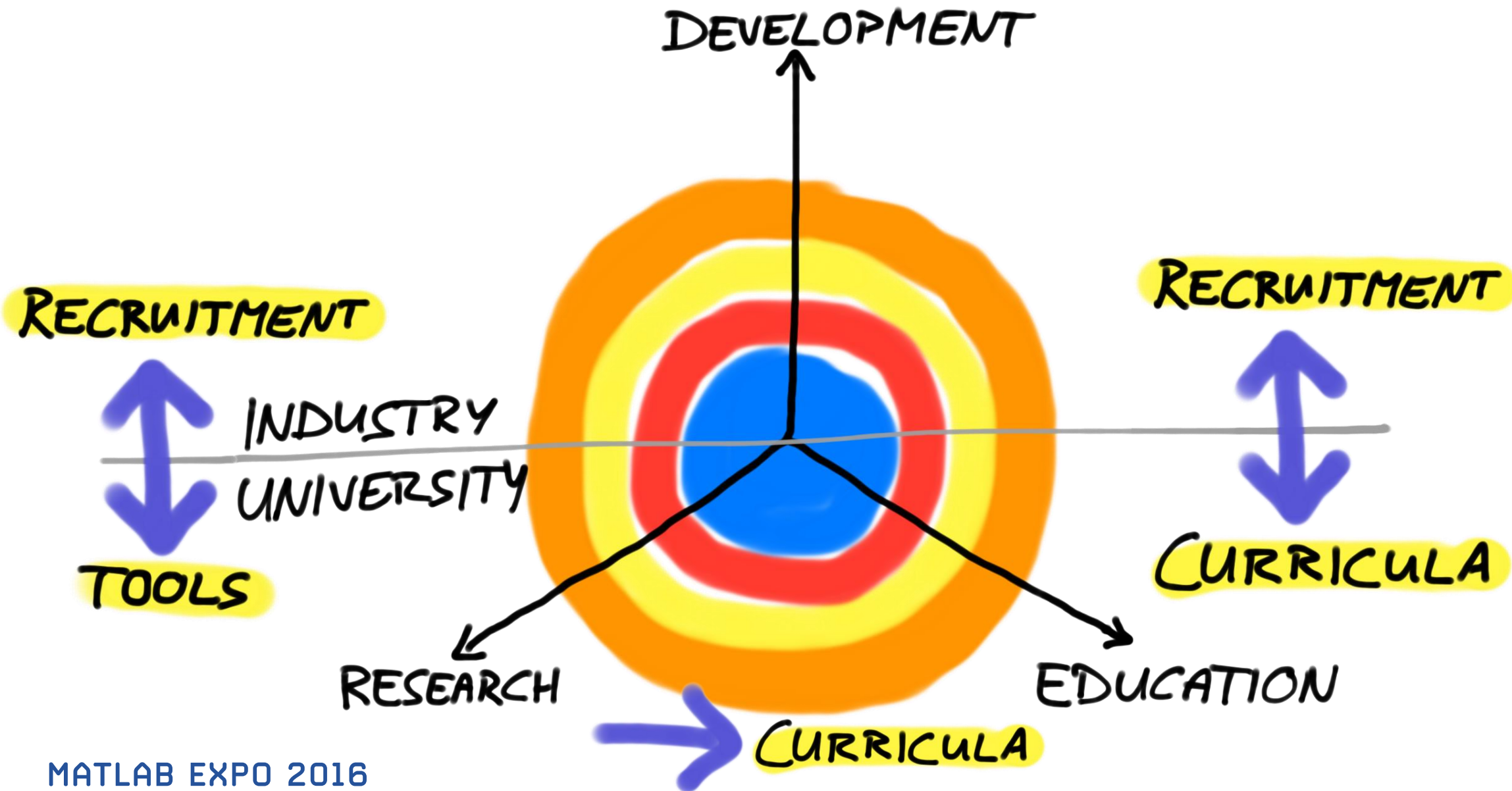


# Academia & Industry

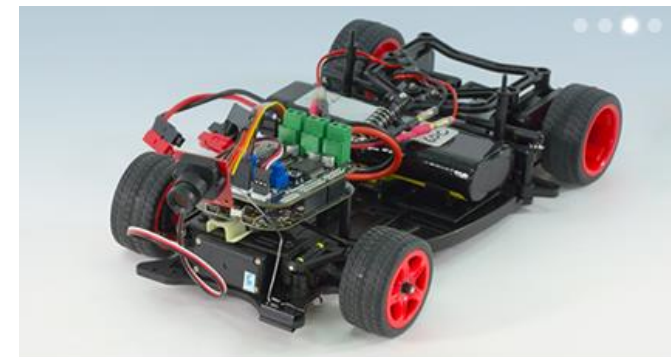




# Academia & Industry – A Network



# Support of Student Competitions



NXP Cup



UAV Challenge – Outback Rescue



RoboCup

[mathworks.de/racinglounge](http://mathworks.de/racinglounge)

MATLAB EXPO 2016

iGEM



## A Computational Thinking Infrastructure...

Site license option chosen by over 650 universities, including MIT, Stanford, TU Eindhoven, TU München, TU Delft, U Cambridge, *all* Uni/UAS Baden-Württemberg, ...

MATLAB available to all faculty, research staff, students, academic visitors



*Large scale MATLAB licenses offer scientists an ecosystem that is a fundamental component of the research infrastructure*

# MathWorks Accelerator Program

**1 year of free access** to entire MathWorks tool suite  
 for all startups participating  
 in one of **150 accelerators / incubators** in 78 cities



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## In Deutschland

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Aachen

[TechFounders](#)

München

[UnternehmerTUM KICKSTART](#)

München

[ESA Business Incubation Centres](#)

*mehrere*

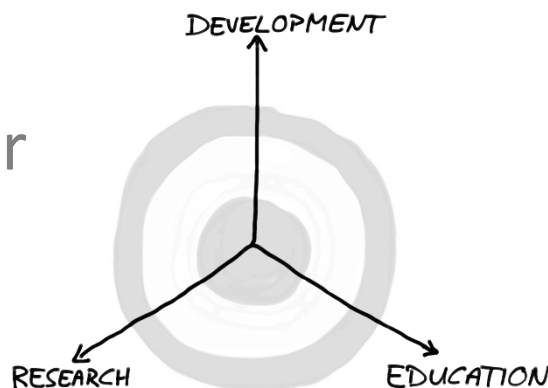


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**Forschen + gründen Sie mit  
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diese MATLAB & Simulink  
einsetzen**

