

# Anabrid: Analog Computing in the Post-AI Bubble Era

Dr. Sven Köppel

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2026-05-19, 17:30 – 19:00, Series „Digital Pioneers“  
Online Event

International Career Service Rhein-Main Career Services by  
Frankfurt University of Applied Sciences,  
Goethe University,  
TU Darmstadt,  
Hochschule Darmstadt,  
Johann-Gutenberg-Universität Mainz,  
Hochschule Rhein-Main

# Agenda

- 1) Intro: From scientist to entrepreneur
- 2) „The Pitch Elevator“ on Anabrid
- 3) [optional] On the technology
- 4) How to Deep Tech in Germany
- 5) Double career & family time



*Already bored?*

*Let's make this interactive.*



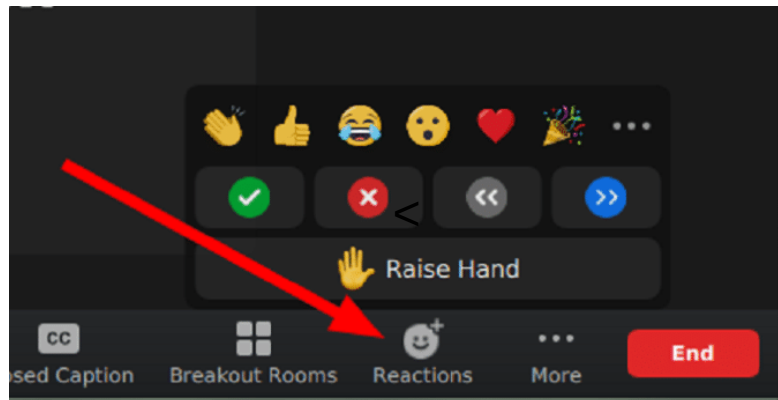


*Already bored?*

*Let's make this interactive.*

1.

Please use the Zoom feature „raise hand“ or the chat function to ask questions!



2.

Let's use a poll/survey feature to quickly collect input from participants.

Visit [pe.app/svenk](https://pe.app/svenk)  
Or scan QR code  
with your phone:



A person wearing a black long-sleeved suit is holding a large, circular mirror in front of their face. The mirror reflects the sky and clouds, which are also visible in the background. The person's hands are visible, holding the edges of the mirror. The overall scene is set against a bright, cloudy sky.

# **Participant survey**



# An illustrated CV

PhysikOnline @ GU, RiedbergTV  
2011-2017



Hessischer  
Hochschulpreis  
für **EXZELLENZ**  
in  
der  
Lehre



Abteilung Lehre und  
Qualitätssicherung (LuQ)

Quantum Physics & Applied Math  
2014-2019



Nobel prize 2017 to LIGO



# An illustrated CV

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PhD Baby  
2017-



2018



Technikum29 Computer Museum  
near Frankfurt [2005-, 2018-]



# An illustrated CV

## Anabrid Semiconductors [2020-]



**SPRIN-D**

BUNDESAGENTUR  
FÜR SPRUNGINNOVATIONEN



Deutsches Zentrum  
DLR für Luft- und Raumfahrt



Federal Ministry  
of Research, Technology  
and Space



reddot design award



product  
design  
award

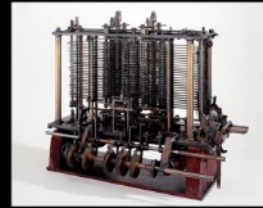
## Startup Baby [2022-]



Ada, \*2022



Analytical  
Engine



# An illustrated CV

FG Münster  
[2020-2025]



Finanzgericht  
Münster



DenktMit eG  
[2022-]



 **STACKIT**  
A Brand of Schwarz Digits

 **50hertz**

 **House of Digital  
Transformation**



**BLICK INS AKTUELLE HEFT**

**Kommt die Quantenrevolution  
des Steuerrechts?**



Dr. Sven Köppel

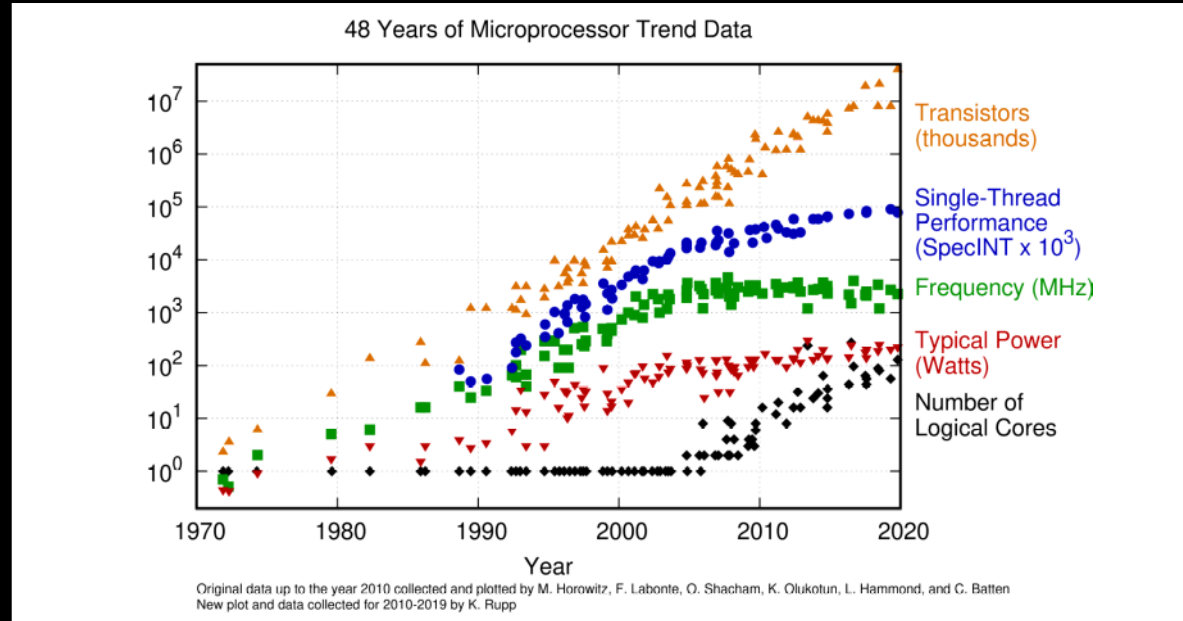
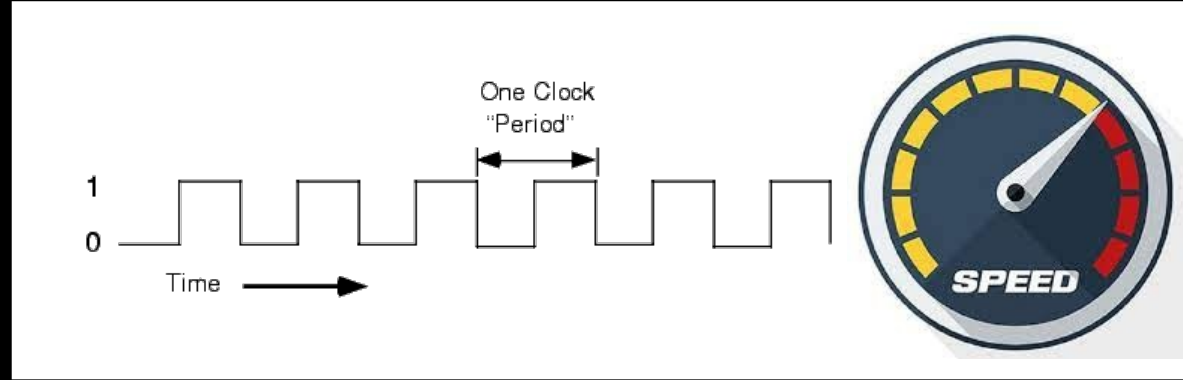
**REthinking:  
Tax**



# TECHNOLOGY

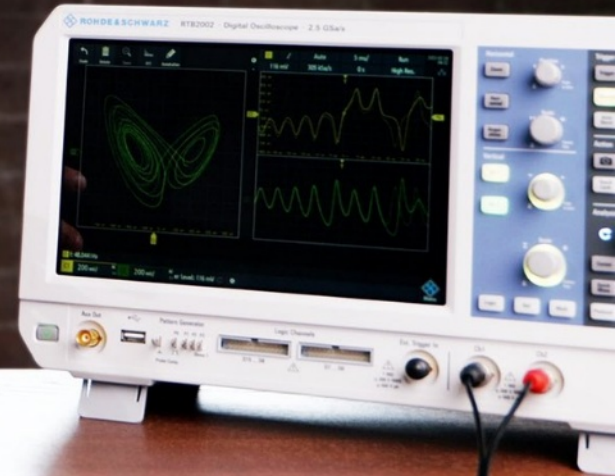


# The Problem: Computing is inefficient and stagnating

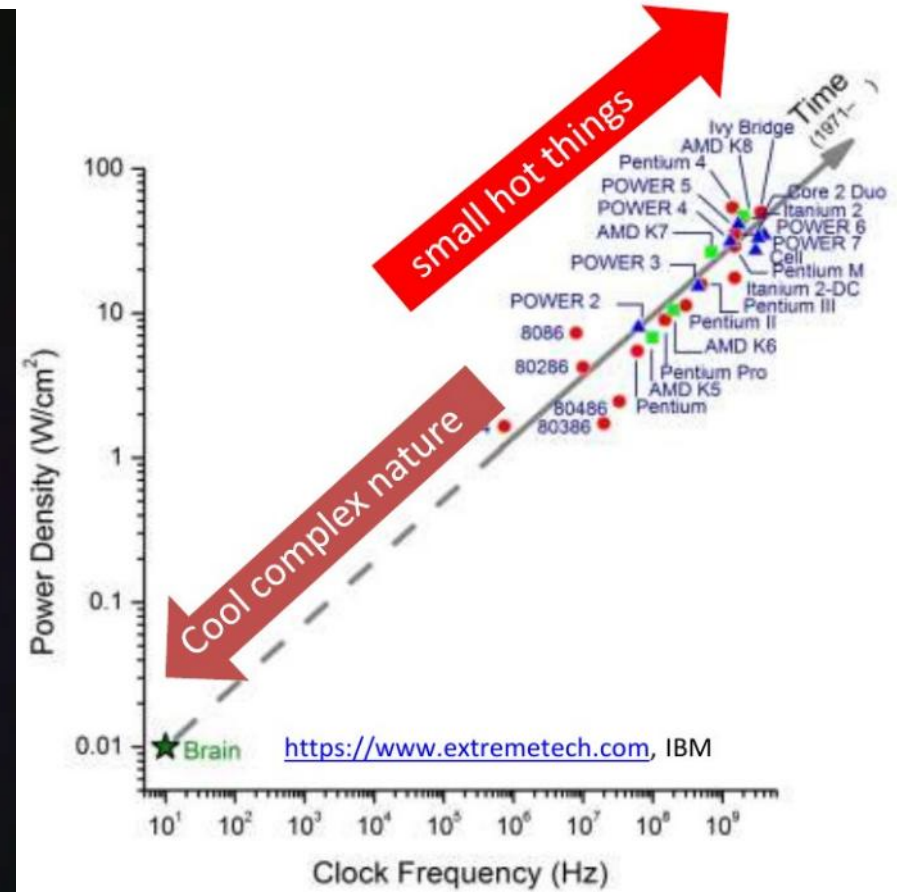


Veritasium @ Youtube:  
Future Computers will  
be radically different,  
12 Million views

# THERE'S A BETTER WAY

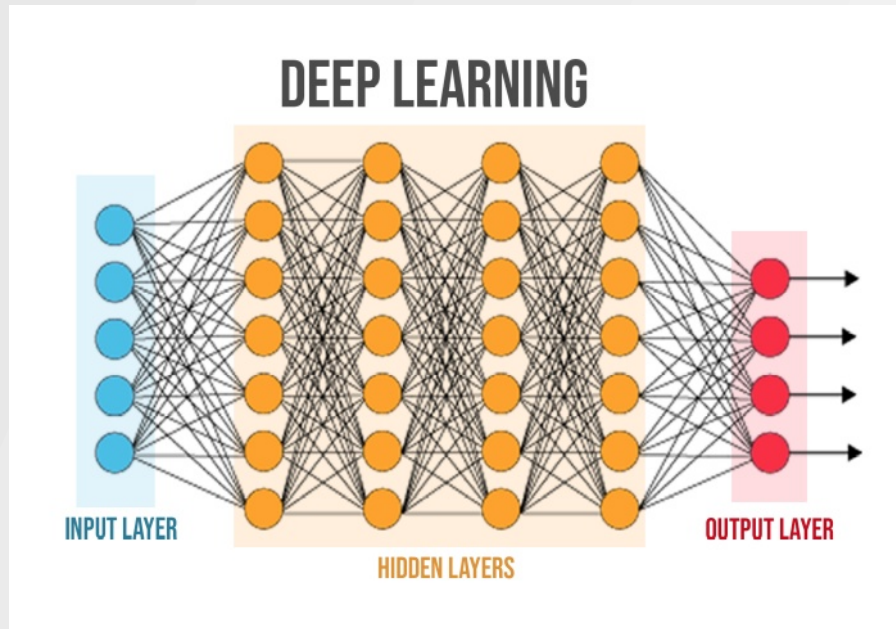


# The Solution: Adopt natural computing like in the brain



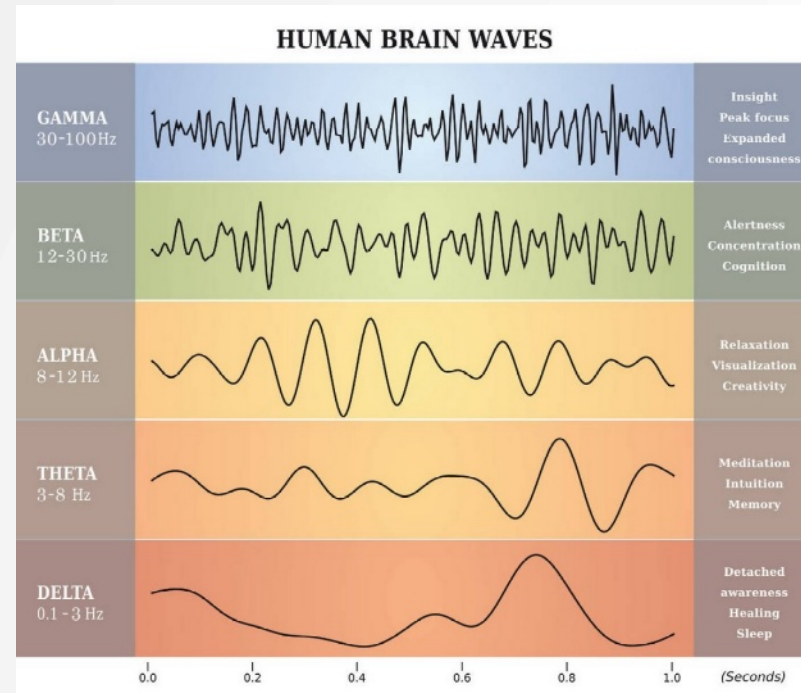
# Compute as the Human Brain

## Digital Arithmetics



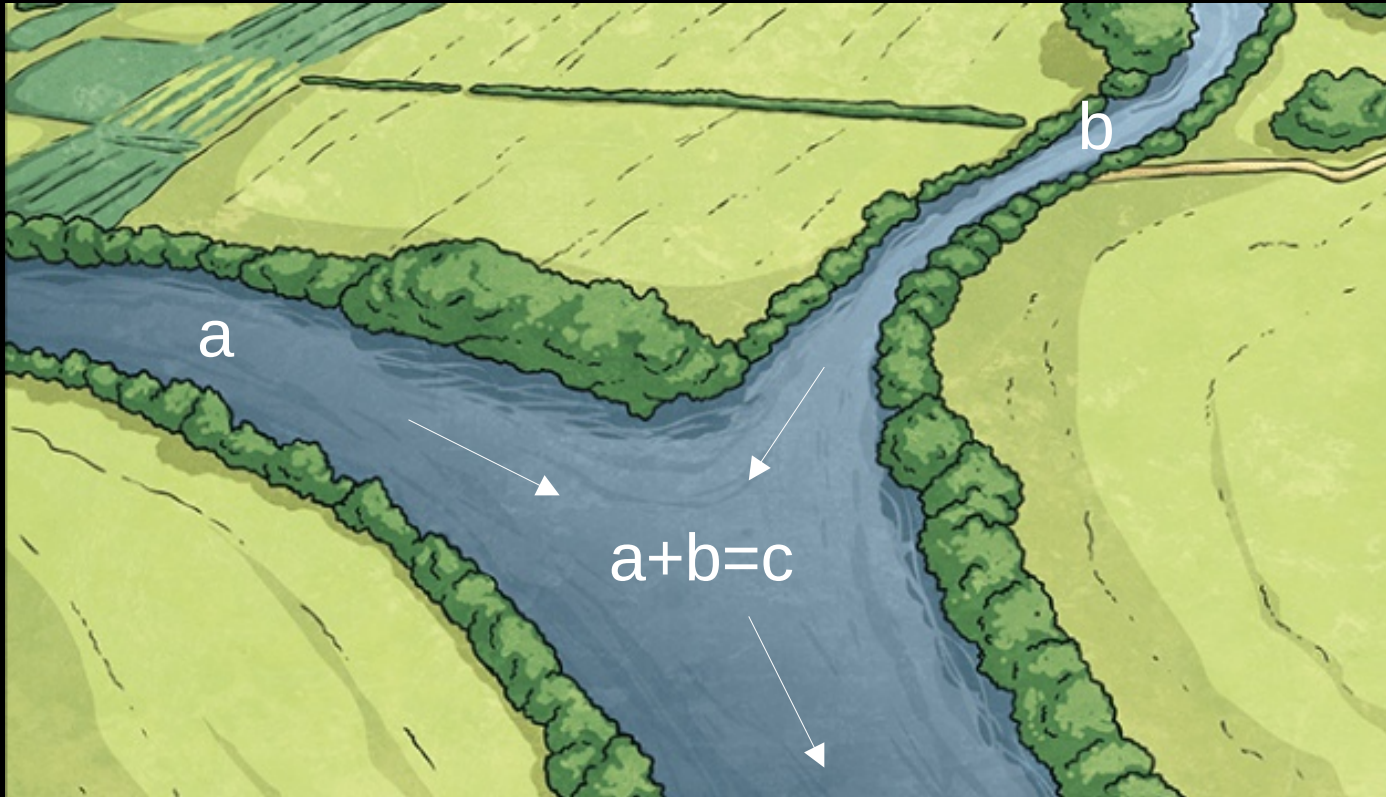
Symbolic computing & sparse linear algebra

## Analog processes in nature



Wave-based computing & dense interconnects

# Confluence of past and future: Computing with Analogies

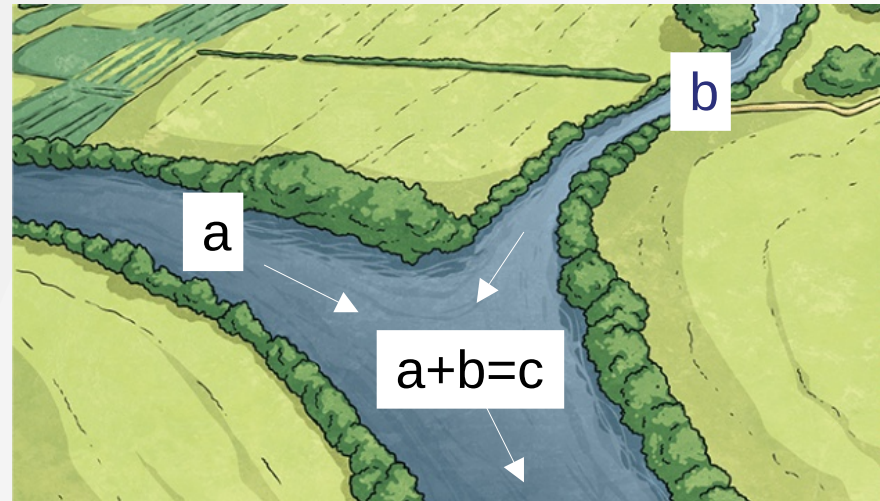


# Analogues

## Digital Arithmetics

4	7	3	.	1	7
		4	7	3	0
	+	<sub>1</sub> 3	3	1	1
		8	0	4	1

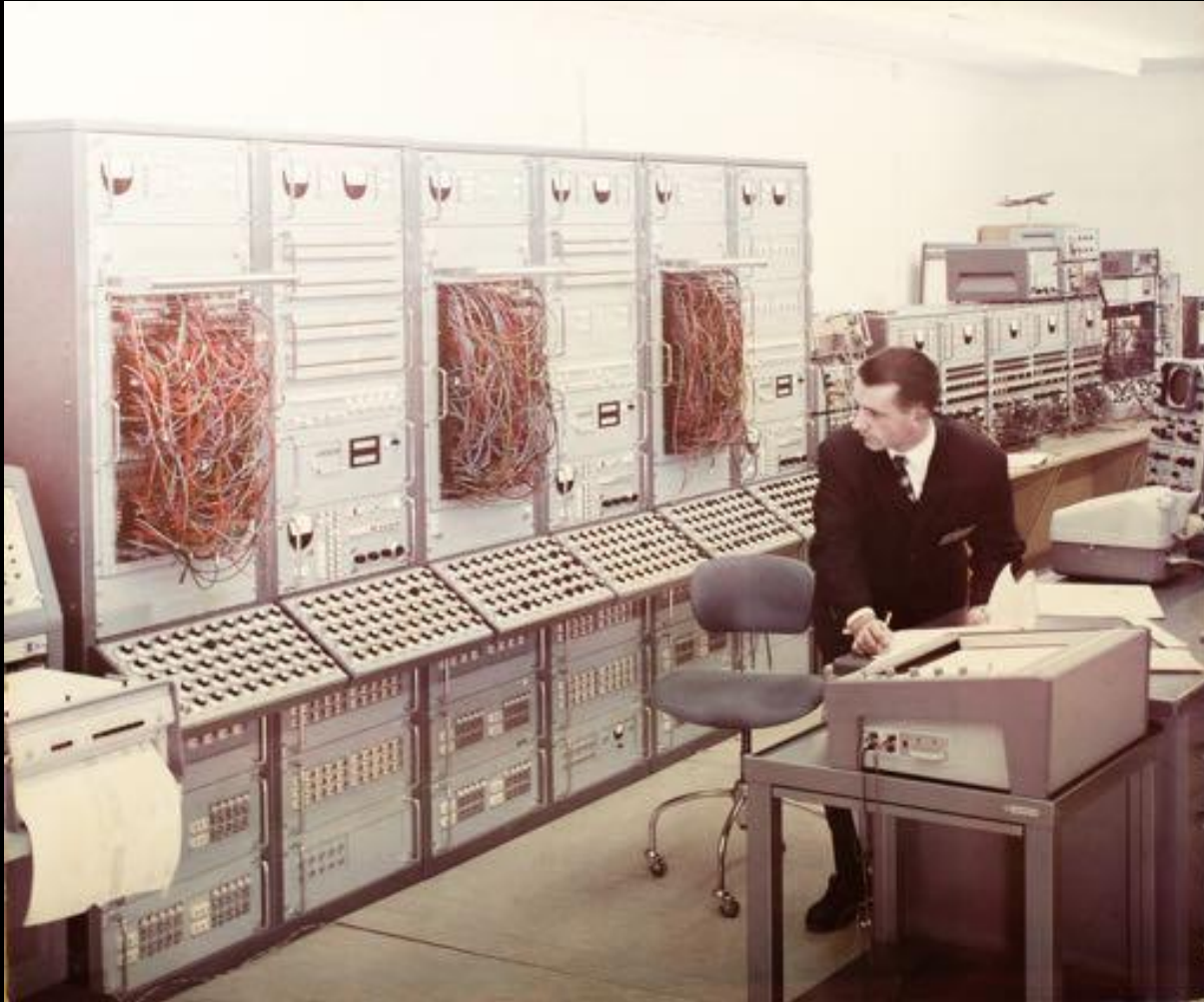
## Analog processes in nature



- Uses algorithms
- Inherently clocked and serial
- Based on memory
- Energy barrier, von-Neumann bottleneck
- Happens in real-time
- Continuous and parallel
- Initial state preparation and Measurement-based
- **Resetting Moore's law**



# Confluence of past and future: Computing with Analogies



Anabrid resets Moore's law

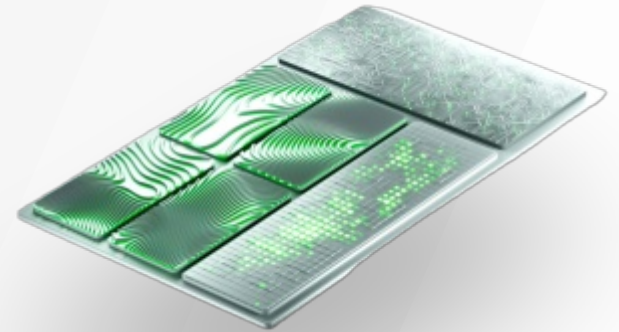
# Rediscovering classical Analog Computing



The Analog Thing  
»Hacker's toolkit«



REDAC Analog Supercomputer



G-PAC: 65nm CMOS

Talking to industry

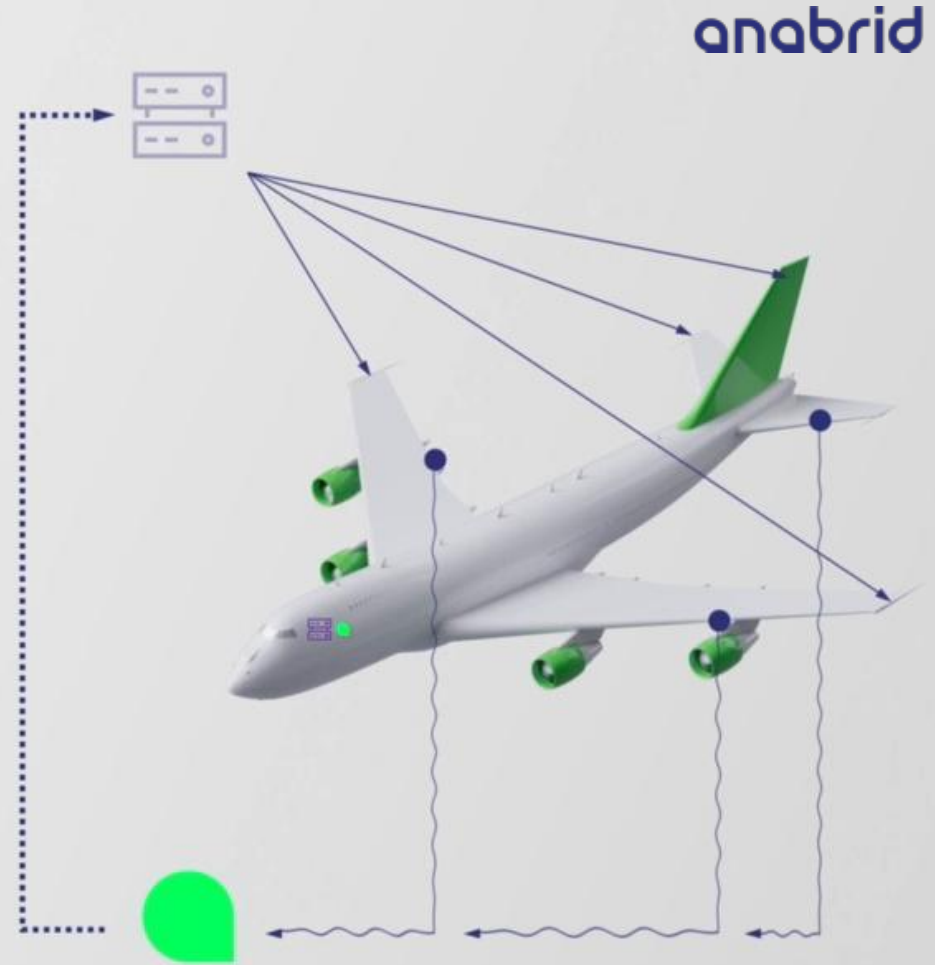
# Reasons why to go analog

Low  
Latency

100%  
Parallelism

Low  
Power

Reduced  
Complexity



anabrid



# FOUNDING CULTURE



# Opinionated Landscape



Hamburg



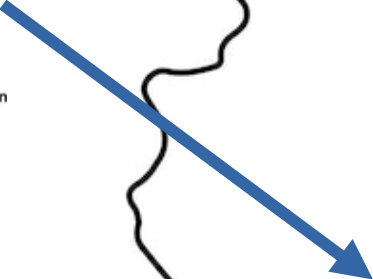
Berlin

BERLIN QUANTUM

Dresden



Frankfurt  
Rhein-Main



FUTURY

EDITH  
GERMANY | Enabling Digital Innovation & Technology in Hesse

Heilbronn



CAMPUS  
FOUNDERS

DIETER SCHWARZ  
STIFTUNG

LTA

Leadership  
Talent Academy

München



UNTER  
NEHMER  
TUM

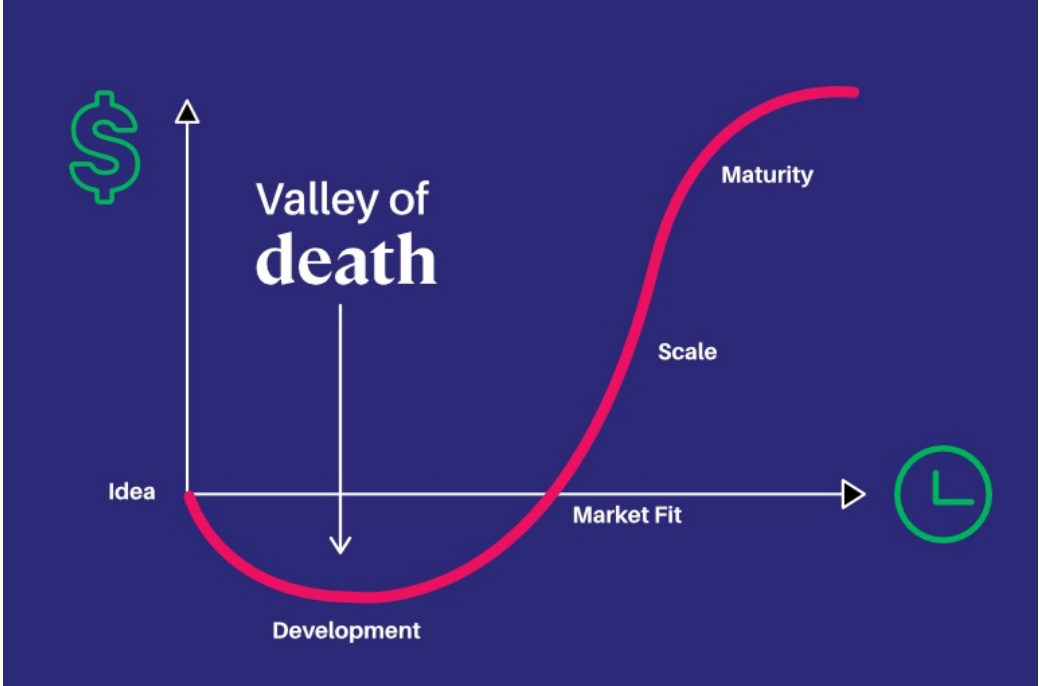
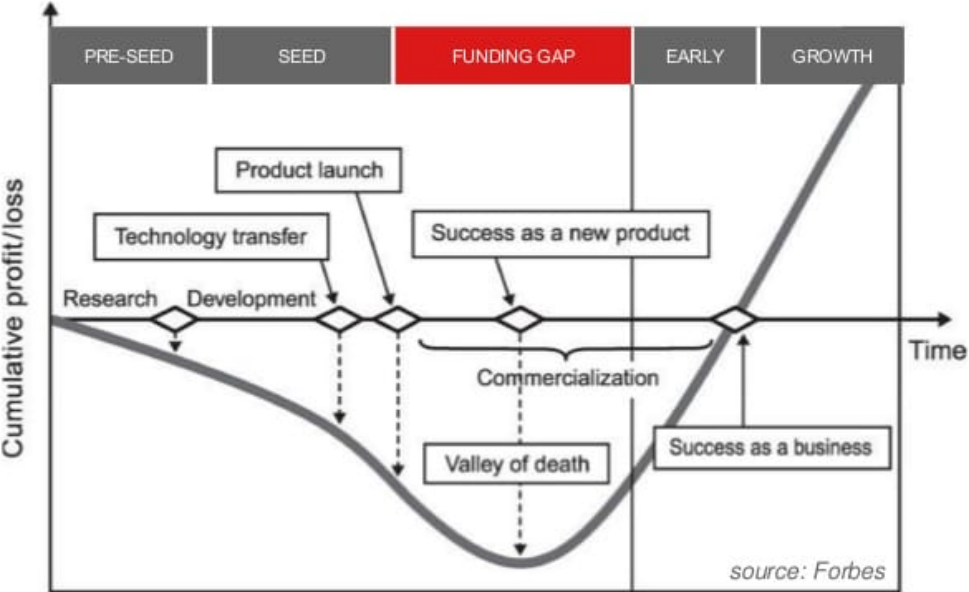
Munich  
Quantum  
Valley

XPRENEURS  
INCUBATOR

TechFounders

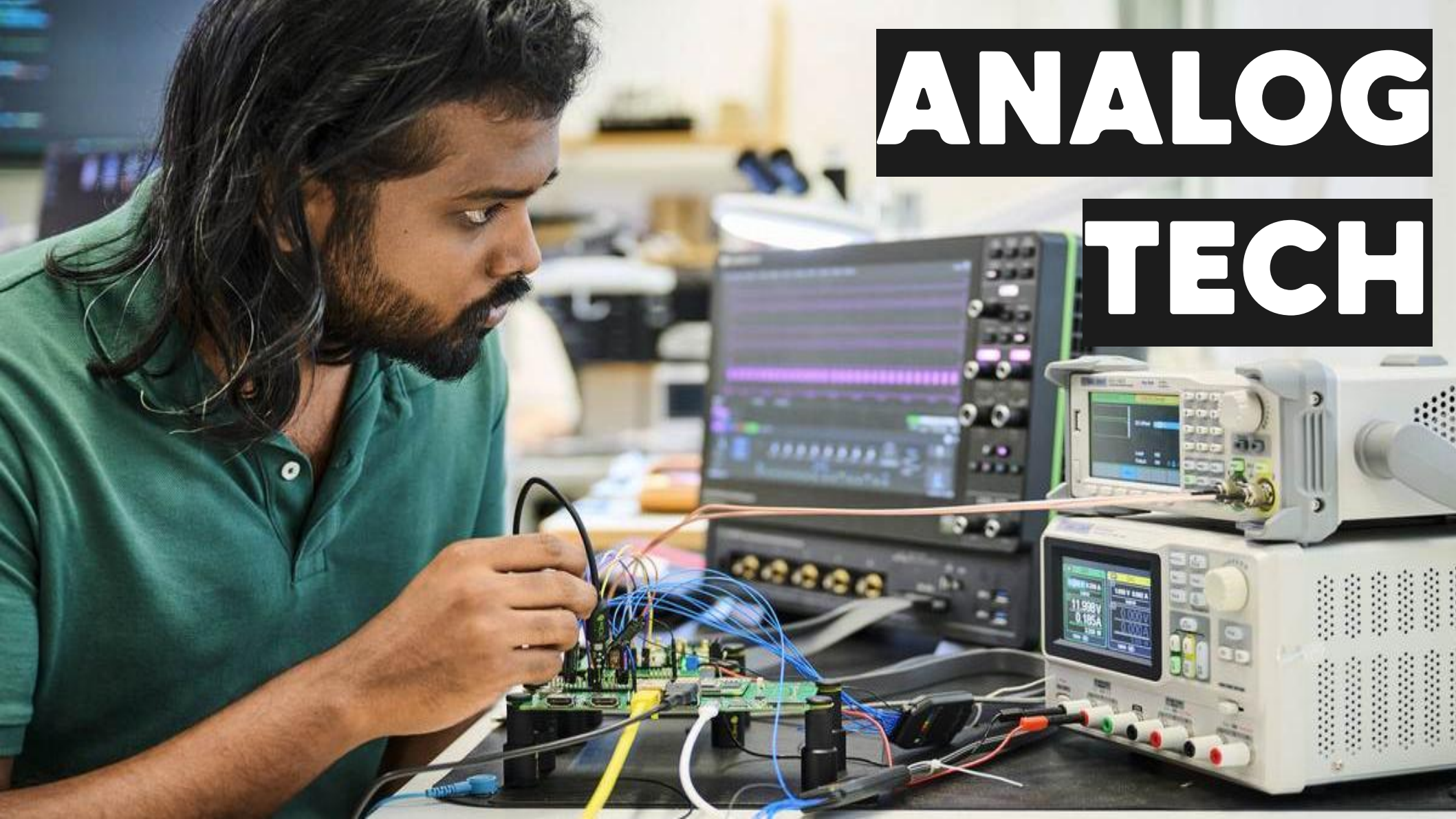
# Funding situation in Germany

## the Valley of Death



# ANALOG

# TECH



See

<https://github.com/svenk/publications/blob/master/Talks/2025-07-14%20FPGA%20Paderborn/2025-07-14%20Analog%20FPGA%20Paderborn%20SK.pdf>

for the shown slides shown with a deeper technical focus

# UPCOMING EVENTS

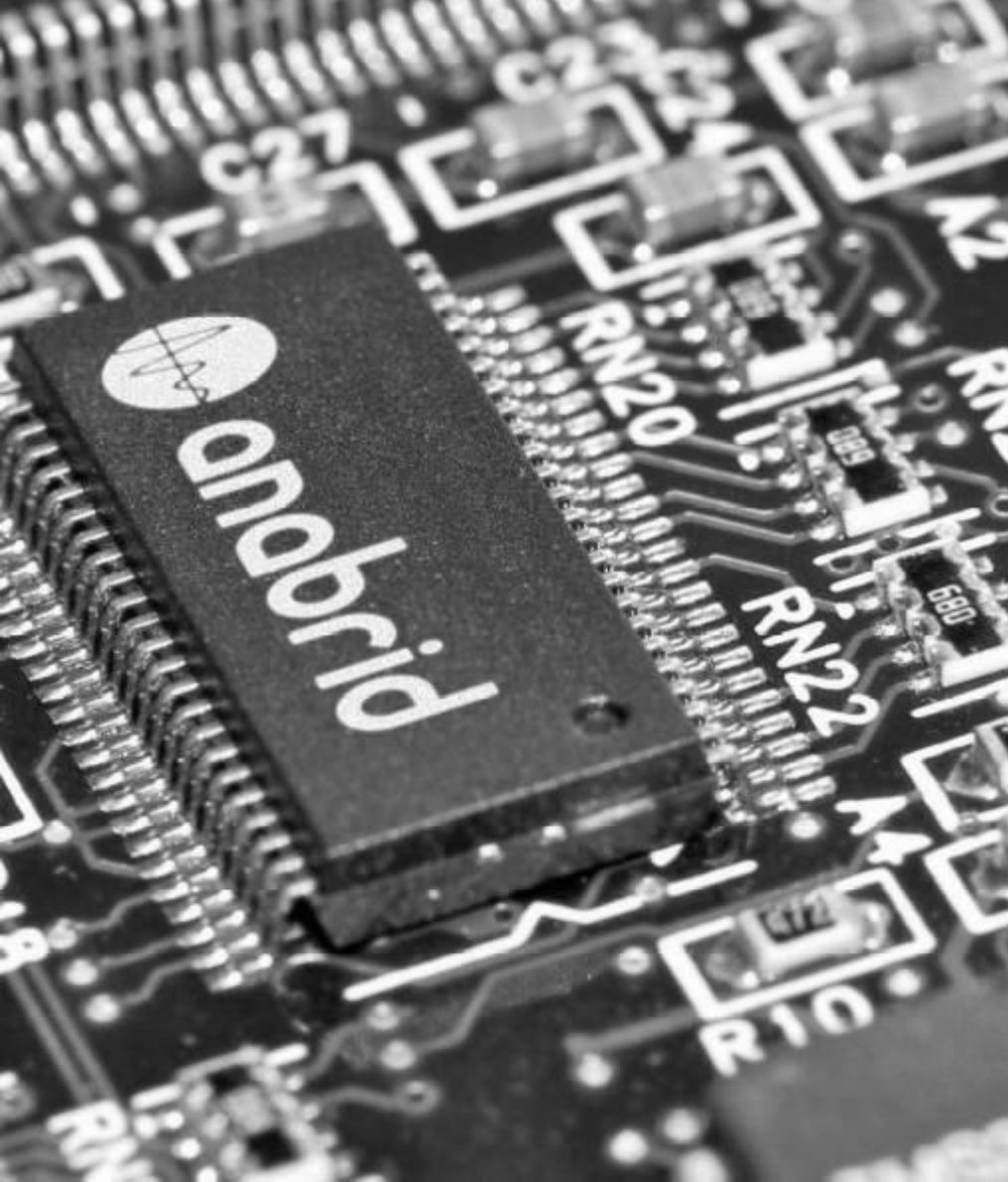


## Upcoming events in Frankfurt on Analog

- Night Of Science @ Goethe University: June 12, 2026
- Analog Computing Days @ Frankfurt School of Finance & Management, June 11-12, 2026  
<https://analog-computing-days.org/>

## Upcoming cultural events in Frankfurt on related topics

- Thu May 28: Opening AI&QC center Bertramshof
- technikum29: permanent exhibition
- SCHIRN: „The World Throught AI“ special exhibition
- Kreativwirtschaftstag May 05, Neue Kaiser, Frankfurt



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Thank you for your attention!