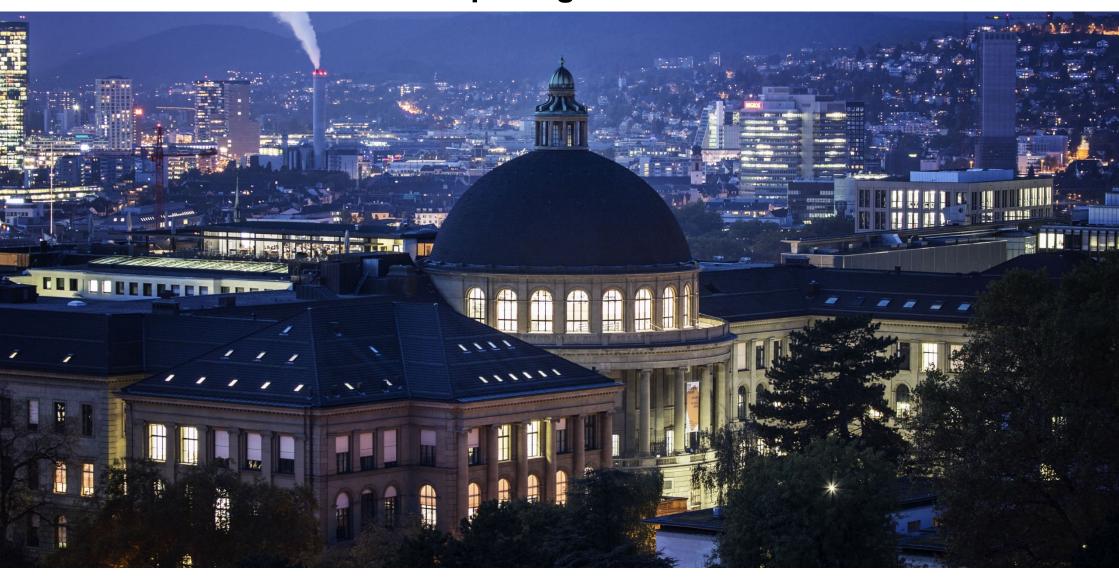
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thar Thiele – Associate Vice President «Digital Transformation» – ETH Zurich

ECIPHERING BLOCKCHAIN - Opening



Offliner **Industry 4.0 Artificial Intelligence** Digital Networks

Information Inequality
Participation

Big Data

Job Loss

Cybercrime

Digital Competences

E Sovereignty

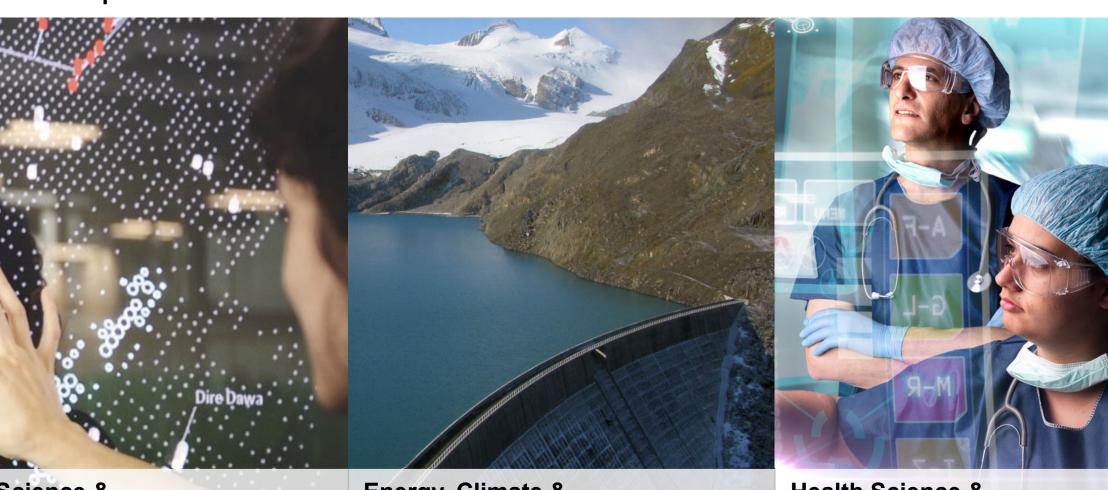
Blockchain

Big Nudging

Automation

Internet of Things

ain Topics at ETH Zurich

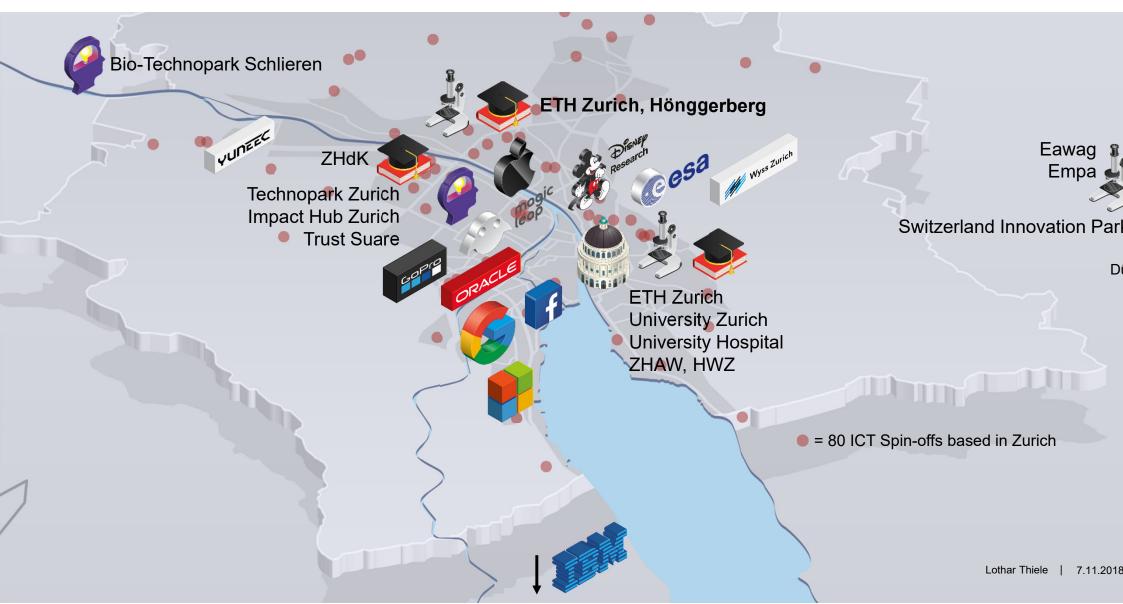


Science & r-Physical Systems

Energy, Climate & Ressources

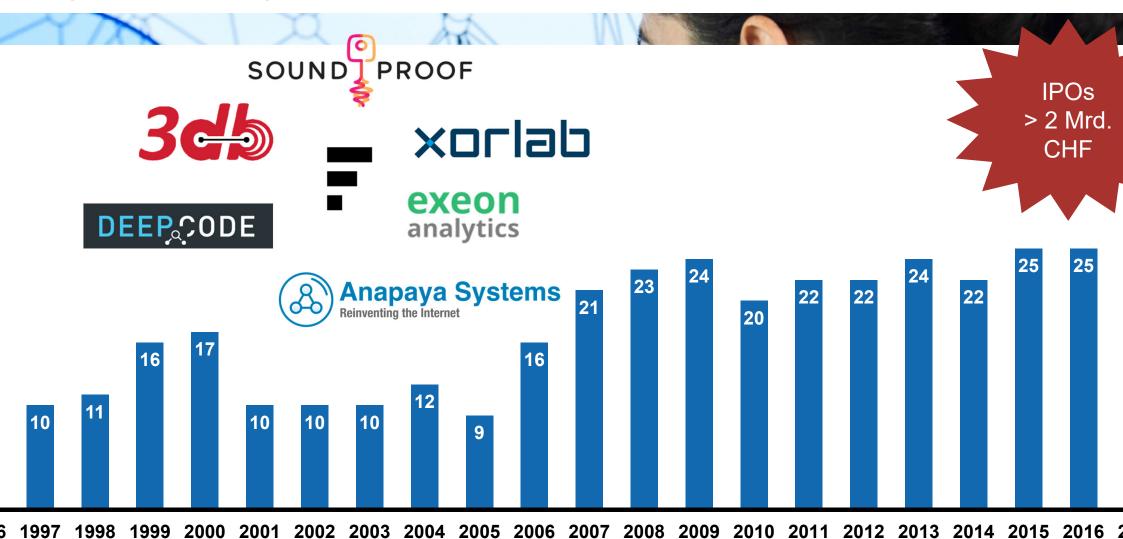
Health Science & Medicine

novation Ecosystem – Zurich



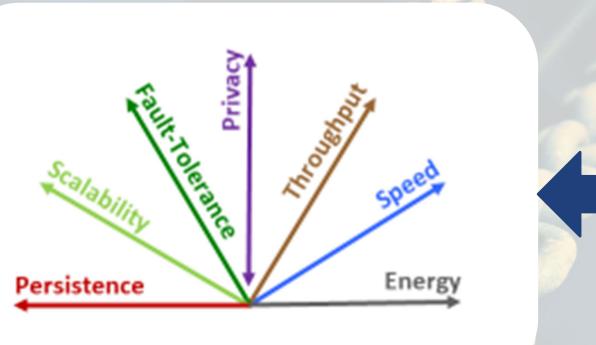
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30 Spin-off-Companies



TH transfer

lockchain and Distributed Ledger



Technology & Research

Legal Retail

Education Finance

Supply Chain

Government Health Care

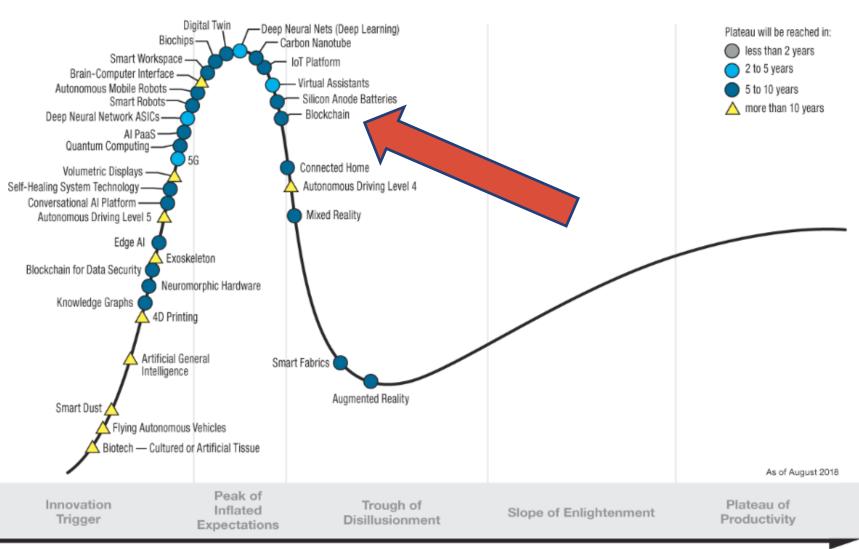
Energy Insurance

Food

Mobility & Transportation

Industry & Society

lype Cycle for Emerging Technologies, 2018



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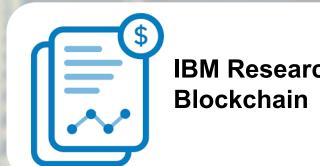
Time

lockchain and the Greater Zurich Area











Blockchain Center UZH **Digital Society Initiative Swiss FinTech Innovation Lab**







ETH Blockchain Initiative

ETH Blockchain Initiative

vid Basin



Srdjan Capkun



Markus Dapp



Hans Gersbach



Ueli Maurer



Peter Mül





rian Perrig



Petar Tsankov



Martin Vechev



Laurent Vanbever



Roger Wattenho

urich Information Security & Privacy Center (ZISC)



e and linked professorships

more than 60 faculty/PhD students/postdoo

























ICE center@ ETH

tiative to secure blockchains, focusing on fundamental search with key infrastructure providers, such as Ethereum and Web3 foundations









End-to-end security for blockchains





Joint projects on securing smart contracts and validating Ethereum compilers



Joint project on designing and verifying next-generation consensus protocols

ETH RISKCENTER

ompetence Center of ETH Zurich founded in June 2011 to

Understand the increasing complexity and dynamic interdependence of social and human-engineered systems

Overcome fragmentation in risk research and risk management

A step further: to push the transition from the pure understanding, modelling, prevention of systemic risk in the direction to the concept of resilience.

Interface with partners, industry, government and society

ctivities of the Risk Center:

esearch:

Cross Disciplinary Research Projects (PhD and PostDoc) Excellent Research Guests Allow for Collaboration with Industry Large Scale Project: Singapore Future Resilient Systems

Outreach:

- Workshops and Conferences
- ETH-wide Seminar Series
- Interactions with Partners
 - Partnership Council
 - Advisory Board
- «Risk Industry» Community

Education:

- Master Level: "Risk Studies Certificat
- Risk Case Study Challenge
- Risk-related Lectures at ETH
- Design of a CAS on "Risk"

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Interdisciplinary Pool of Expertise – 20 Members from 8 Departments



Leadership of the Center

Chairman

Prof. Antoine Bommier

Steering Committee

Prof. Patrick Cheridito (MATH)

Prof. Hans Rudolf Heinimann (USYS)

Prof. Giovanni Sansavini (MAVT)

Prof. Bozidar Stojadinovic (BAUG)

Executive Director

Bastian Bergmann

Lzürich

ramme	15:30 Blockchain@SBB: The Beauty of a Common Immutable Truth	
y, 1 Feb. 2019, 13:15 – 18:00, HG E7, ETH Zurich		Vitus Ammann, Digitalization & Strategy, SBB AG
Opening Remarks Prof. Lothar Thiele, Associate Vice President for Digital Transformation, ETH Zurich	16:00	Distributed Ledger in Renewable Energy Transactions Robert Schwarz, Principal, Pöyry Energy Consulting
Blockchain Basics and Examples: eCHF and eVoting Prof. Roger Wattenhofer, Distributed Computing Group, ETH Zurich	16:30	How Much Should we Trust and how Much Should we Distribute Blockchains, TEEs and More Prof. Srdjan Capkun, System Security Group, ETH Zurich
Blockchains - From Technology to Use Cases Björn Tackmann, IBM Research Zurich	17:00	Blockchain, Contracts and Super-Property Prof. Stefan Bechtold, Center for Law and Economics, ETH Zurick
Distributed Ledger Technology for Clearing and Settlement Silvan Villiger, Senior Product Architect, Digital Asset Simon Meier, Director of Engineering, Digital Asset	17:30	Impact of ETH Research and Startups to Blockchains Petar Tsankov, ICE center, ETH Zurich
Coffee Break - Experience Blockchain with ETH Start-ups	18:00	Aperitif - Experience Blockchain with ETH Start-ups

TH RISKCENTER