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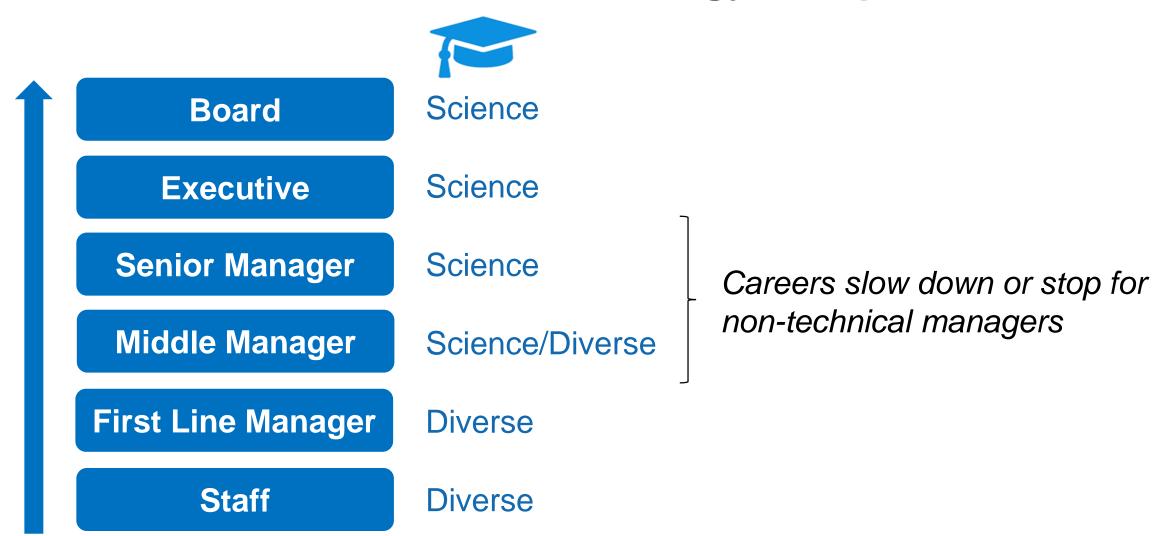
MAS in Applied Technology (MAS AT) Concept and Programme

Developed in Response to Industry Request

- Problem: Lack of qualified candidates for senior management in technology companies
 - Science and technology qualifications are missing
 - > Existing education and training options are inadequate

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Career Advancement in Technology Companies



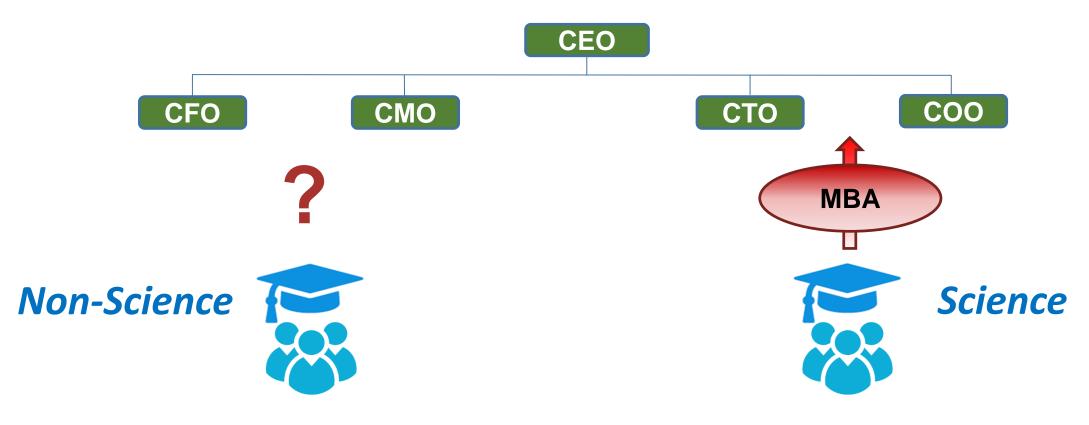
2016 LinkedIn Study of 459,000 Professionals

"To be a C.E.O. or other top executive, you need to understand how the different parts of a company work and how they interact with each other and understand how other people do their job, even if it's something you don't know well enough to do yourself."



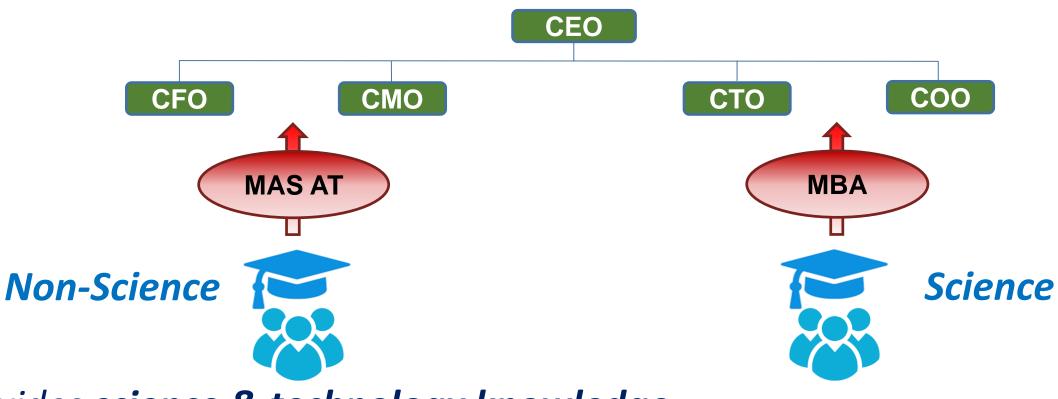
Guy Berger, Economist at LinkedIn

Gap in Continuing Education Market



Critical Unmet Need: Science & Technology Need business skills

Positioning as "Reverse" MBA



Provides science & technology knowledge and innovation skills

Programme Concept – Goals

- Continuing Education Degree Enabling Graduates to
 - Understand the scientific aspects behind the most important technologies in their industry
 - Collaborate more effectively with technical experts and managers in order to provide interdisciplinary, technology based solutions to industry problems
 - Better lead technical staff and technology-based companies

Target Participants

- Experienced managers
- In technology companies or industries
- Non-science or single science Master's degree
- Promotion Potential

Example Participant – Marketing Manager



12 years – Manufacturing Manages groups in 3 EU countries Masters in Marketing & Communication

Supervisor & HR Feedback

- Next level will require more interdepartmental collaboration
- Should improve understanding of operations and engineering
- **Personal Goals**
 - Improve product design
 - Understand opportunities created by technology

Example Participant – Finance Manager



6 years – Electronics Industry First Line Manager, Finance Dept. Masters in Finance Supervisor & HR feedback

- Excellent with numbers
- Look beyond the numbers and help the company be more innovative, especially in its use of technology

Personal Goals

- Stronger relationships with technical managers in the business unit
- Not feel lost in technical conversations

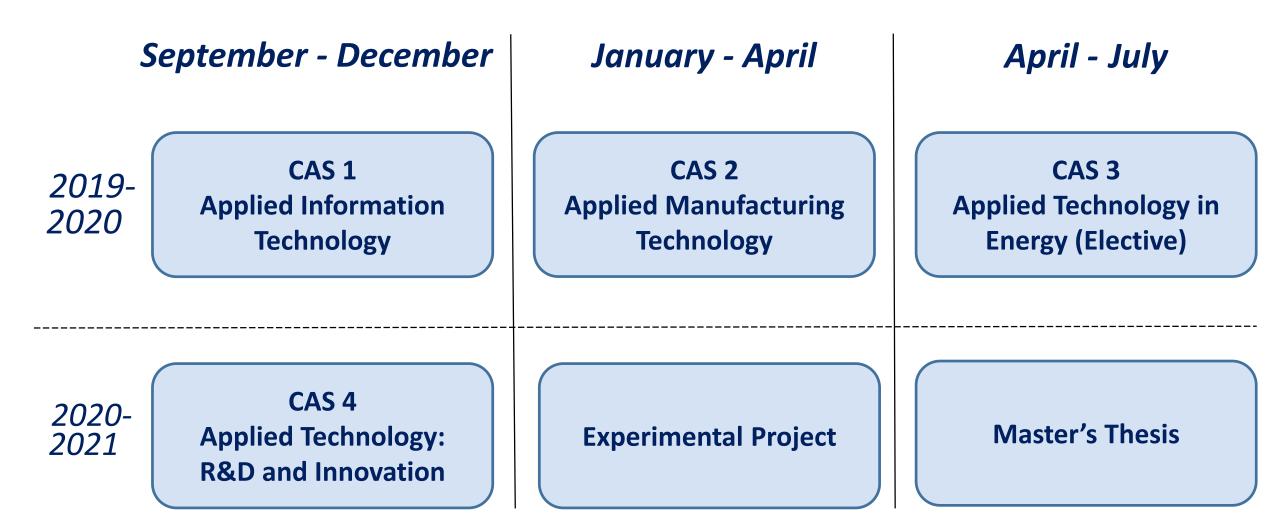
MAS AT Program Structure

MAS	Applied Technology	66 ECTS
CAS 1	Applied Information Technology	12 ECTS
CAS 2	Applied Manufacturing Technology	12 ECTS
CAS 3	Applied Technology Elective*	12 ECTS
CAS 4	Applied Technology: R&D and Innovation	10 ECTS
Experimental Project		10 ECTS
Master's Thesis		10 ECTS

* Participants select from available options; subject to change

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MAS AT Study Plan – First Round



CAS 1 – Applied Information Technology

E-tutorials (14 weeks)

Foundations of Computer Science (3 ECTS)

Block Format (4 weeks each)



Experimental Project

Goal

> Explore and improve understanding of a specific technology application

> Better appreciation of typical problems during technology development

Project Options

- ETH supervised project
- Participant designed (with prior written approval of Advisor and ETH Lab)

ETH Advisor

- Assigned based on project selection
- Meet during CAS 4 for advance planning

Master's Thesis

Subject

Evaluate a technology application to solve a real industry problem

Problem and technology freely selectable (with Advisor approval)

Key Points

- Integrative of material and skills learned in programme
- Must be sufficiently rigorous from science and technology perspective
- > Other information (policy, market, etc.) should be context only, not primary focus

Start early!

- ETH Advisor
 - > Ideally, same advisor as experimental project
 - Meet during CAS 4 for advance planning

Further Information

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www.mas-at.ethz.ch

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