

High Technologies and Media Business Models:

Current discussion on implications of high technologies on business models.

Investments of media corporations in high technology start-ups.

Annual Conference International Media Management Academic Association 2018
Stuttgart, September 13–15.

RESEARCH QUESTIONS



Is it possible to identify and classify structures in the adoption of primarily high technologies for media business models and to evaluate them with regard to theories of technology diffusion?

- (1) Which technologies are currently being discussed in scientific as well as in business practice?
- (2) Which technologies are media companies currently investing in (understood as investments or acquisitions in start-ups.)?

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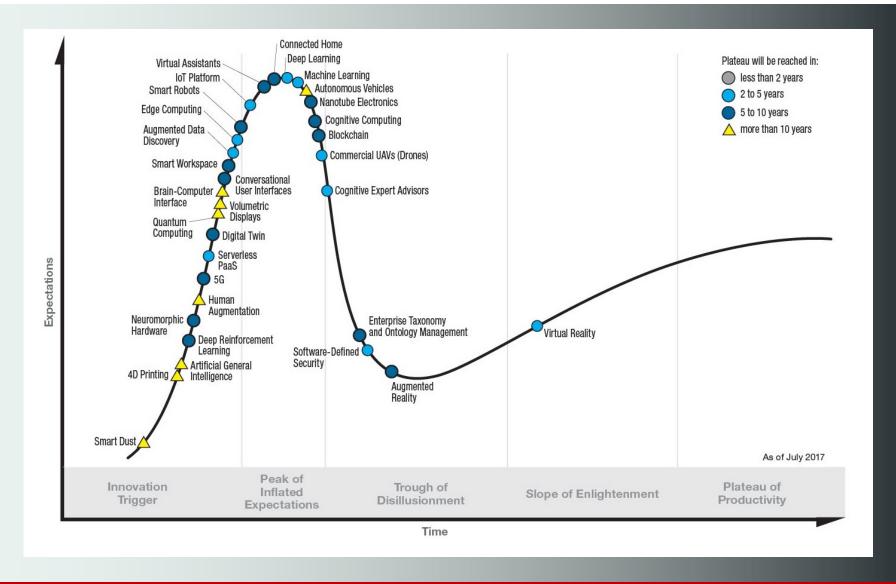
METHODOLOGY



- Mixed Method Approach (mix of qualitative and quantitative research)
- What is being discussed? Content Analysis:
 - (a) relevant scientific journals,
 - (b) studies carried out and/or commissioned by companies,
 - (c) conference speeches by relevant professionals
- A total of 199 documents (journal articles, studies, lectures) were recorded and analysed.
- How is action taken in practice? Evaluation of the investments of the largest German media companies and their investment organizations/units with regard to target technologies and target industries
- A total of 226 Investments were identified and analysed.
- Selection and systematization of technologies is based on the Gartner Hype Cycle of Emerging Technologies (Gartner Inc. 2017).

GARTNER HYPE CYCLE OF EMERGING TECHNOLOGIES



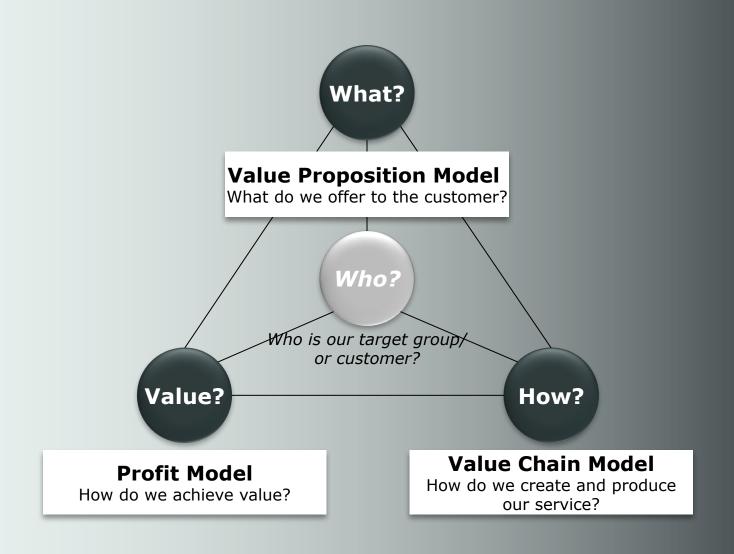


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Business Modell Approach





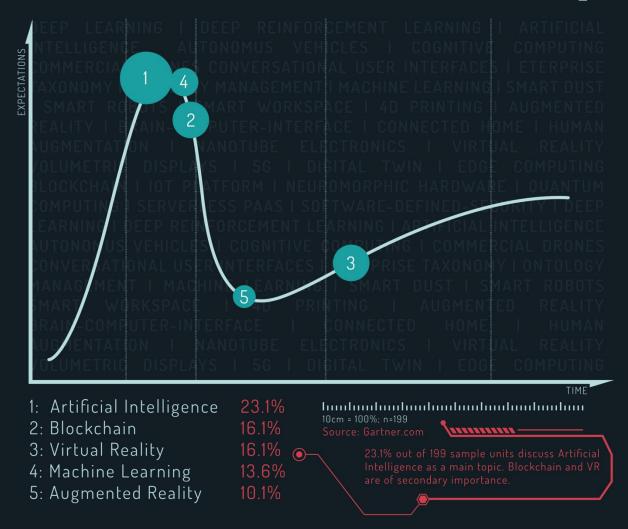
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(1) WHAT IS BEING DISCUSSED?



FIVE MAIN TECHNOLOGIES ARE BEING DISCUSSED_



(1) WHAT IS BEING DISCUSSED?



HIGH TECH HAS THE MOST IMPACT ON THE VALUE CHAIN MODEL_



EXAMPLE:

OUT OF 32 SAMPLE UNITS COVERING VIRTUAL REALITY, 34.4% DISCUSS THE IMPACT OF THE TECHNOLOGY ON THE PROFIT MODE!

EXAMPLE:

DUT OF 46 SAMPLE UNITS DISCUSSING THE IMPACT OF NEW TECHNOLOGIES ON THE PROFIT MODEL, 23.9% COVER VIRTUAL REALITY. How often is the Value Proposition Model being discussed?

How often is the Value Chain Model being discussed?

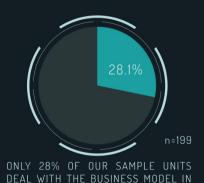
How often is the **Profit Model** being discussed?

n=46

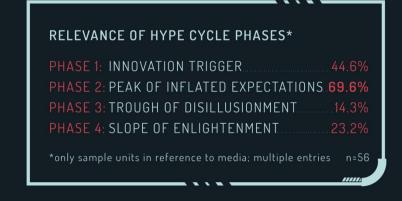
(1) WHAT IS BEING DISCUSSED?

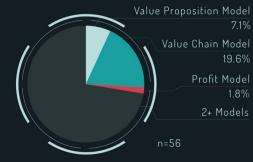


MEDIA INDUSTRY OF MINOR RELEVANCE_

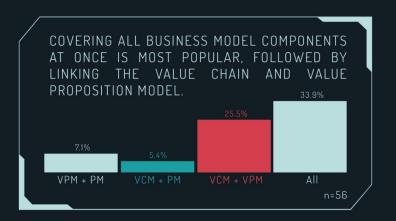


REFERENCE TO THE MEDIA INDUSTRY.





MOST SAMPLE UNITS THAT DEAL WITH A SINGLE COMPONENT DISCUSS THE VALUE CHAIN MODEL.



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TECHNOLOGIES WERE CLUSTERED IN THREE LEVELS_

HIGH TECH

technologies appearing on the Gartner Hype Cycle of Emerging Technologies

MID TECH

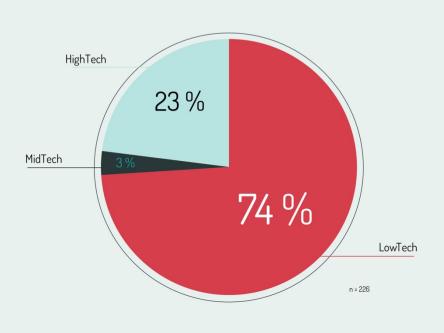
high technologies which are no longer on the Gartner
Hype Cycle

LOW TECH

technologies such as platforms, websites and apps

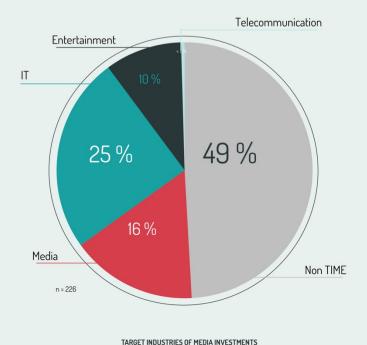


LOWTECH & NON MEDIA TARGET INDUSTRIES DOMINATE THE INVESTMENTS OF MEDIA COMPANIES_



TECHNOLOGY CATEGORIES OF MEDIA INVESTMENTS

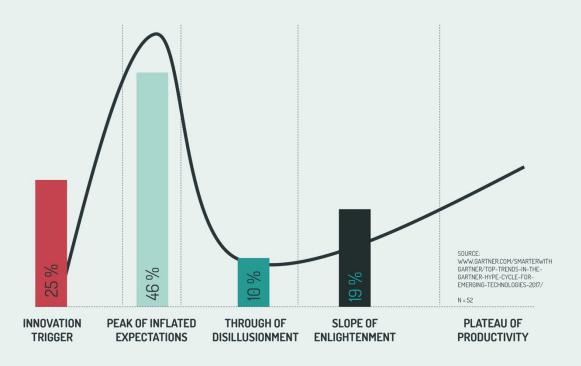
ONLY 23% OF 226 TOTAL MEDIA COMPANIES' INVESTMENTS (I.e. n = 52) WERE IN TECHNOLOGIES THAT CAN BE FOUND ON THE GARTNER HYPE CYCLE.



84% OF INVESTMENTS BY MEDIA COMPANIES WERE IN COMPANIES FROM OTHER INDUSTRIES SUCH AS IT.



WHEN MEDIA COMPANIES INVEST IN HIGH TECHNOLOGY, THEY DO SO IN THE PEAK OF INFLATED EXPECTATIONS PHASE_



TECHNOLOGIES INVESTED IN

MEDIA COMPANIES PREFER TO INVEST IN TECHNOLOGIES IN THE PEAK OF INFLATED EXPECTATIONS PHASE - ALMOST HALF OF 52 INVESTMENTS BELONG TO THIS PHASE.



2 OUT OF THE TOP 3 HIGH TECH INVESTMENTS FROM MEDIA COMPANIES FOLLOW THE AI EVERYWHERE TREND_

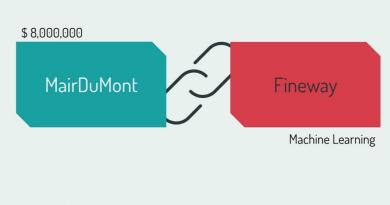


TECHNOLOGIES INVESTED IN

MORE THAN TWO THIRDS OF 52 INVESTMENTS ADDRESSED MACHINE LEARNING, VIRTUAL REALITY AND ARTIFICIAL GENERAL INTELLIGENCE.



EXAMPLE CASES_







SUMMARY (WHAT IS BEING DISCUSSED?)



- Artificial Intelligence, Blockchain, Virtual Reality, Machine Learning and Augmented Reality are the top technologies being discussed.
- These five technologies are discussed (when related to business model innovation) with implications for the value chain model.
- If implications for business models are discussed (for Value Proposition Model, Value Chain Model or Profit Model), artificial intelligence is the most important issue.
- The reference to the media industry is rare (only in 28% of cases).
- With reference to the media industry, implications for the value chain model are addressed.

SUMMARY (HOW IS ACTION TAKEN IN PRACTICE?)



- The investments of media companies mainly take place in the low tech sector (74%).
- Only 50% of the Media companies' invests (in start-ups/companies) can be assigned to the TIME sector. Thus, media companies are diversifying into completely new sectors.
- Media companies invest (if in high technologies at all) in technologies located at the peak of inflation expectations (46%).
- Media companies invest (if in high technologies at all) mostly in artificial intelligence.



Thank you very much!