State of MediaTech



Milano Audiovisual Forum

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IABM Copyright 2023

State of MediaTech

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Common threads in this presentation

~~	Headwinds	Macro headwinds have negatively affected business confidence and M&E business models, leading to cost reduction initiatives			
	Efficiency	This environment is leading to a rationalization of investment, including MediaTech, and a prioritization of efficiency over other investment drivers			
<u>dı.</u>	Scarcity	Scarcity of resources, and particularly of talent, remains a growth barrier for MediaTech businesses, and is influencing investment			
	Focus: AI/ML	The move to the cloud is catalyzing media businesses' investments in AI/ML technology to boost automation and efficiency			
Sources: IABN	N				
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Business Confidence

Business confidence: Will 2024 be better?

14 12 10 2020 2021 2022 2023

IABM MediaTech Confidence Ratio

Market moved slowly at the start of the year, in our opinion due to the war in Ukraine and economic conservatism and rising consumer prices. Outlook for second half of the year is more optimistic since markets seem to be recovering

2023 will be quite difficult, but we expect 2024 to be better

The first two quarters of 2023 have been slow, but there is evidence the final half of 2023 and 2024 will pick back up

> MediaTech Suppliers Worldwide (June 2023)

Sources: IABM, The Confidence Ratio consists of a simple ratio of positive to negative responses

Business Confidence

Business confidence: Macro headwinds become top topic as outlook darkens



Sources: IABM, Only top 5 topics considered in the diagram above, based on a text analysis of survey comments, colors illustrate prevalent sentiment (red=negative, green=positive, grey=neutral)

Macro headwinds: Impact on M&E business models



Consumers

Inflation continuing to affect consumers' propensity to pay for entertainment

Revenues

Macro uncertainty affecting commercial, subscription and public revenues





Content

Slowdown in investment exacerbated by impact of strikes

Resources

Labor and supply chain shortages leading to resource inflation



Sources: IABM



www.theiabm.org

Streamers cut costs to pursue profitability





Cost Reduction

In February 2023, Disney announced that it would cut 7,000 jobs (3% of its workforce) and plans to cut \$5.5bn in costs, including \$3bn in content savings

Cost Reduction (2)

"We will take a very hard look at the cost of everything we make across television and film," CEO Bob Iger said in the earnings call announcing the measures

Sources: IABM, Company filings



Publicly-funded models continue to be under pressure



Annual budget of France Télévisions, 2016-2023

Public Broadcasting

Funding of many public broadcasters in Europe continues to be under political pressure, which is being exacerbated by macro headwinds

Public Broadcasting (2)

The European Audiovisual Observatory estimated that public broadcasting in Europe between 2015 and 2020 was cut by \$881.5m

Sources: IABM, Company filings

Margins are increasingly under pressure



Sources: IABM, Company filings

Labor and supply chain shortages are still there, leading to technology inflation

EVS H2 2022 results

Evertz Q2 2023 results

When we look to the main risks that we are still facing, that scarcity of electronic components, salary inflation and component cost inflation, it's still there... We have implemented several price increases to be in line with inflation as we've seen that around the world It [supply chain] still represents a significant challenge, to be honest... So that's really why we're sitting with \$23 million more in raw materials this year-end and \$40 million since the last of October. So, we've continued to stockpile raw materials as it continues to be a challenge



Douglas Moore CFO Evertz (December 2022)



Sources: IABM, Company filings



MediaTech Roadmap

MediaTech roadmap: Historical ranking



Sources: IABM

MediaTech Purchasing Drivers

MediaTech purchasing drivers: Historical importance



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MediaTech Investment

Cloud and other software investment has grown in H2 2023



Sources: IABM, NET investment consists of subtracting the % of companies saying that investment is decreasing from the % of companies saying that it is increasing

MediaTech Investment

AI/ML application by content supply chain segment



AI/ML application by Content Supply Chain segment

Sources: IABM

MediaTech Investment

AI/ML as the new long-term investment focus, driving technology spending on cloud

Amazon Q2 2023 earnings call

Every single one of our businesses inside of Amazon, every single one has multiple **generative Al** initiatives going right now. And they range from things that help us be more cost-effective and streamlined in how we run operations in various businesses to the absolute heart of every customer experience in which we offer. And so, it's true in our stores business. It's true in our AWS business. It's true in our advertising business. It's true in all our devices, and you can just imagine what we're working on with respect to Alexa there. It's true in our entertainment businesses, every single one. It is going to be at the heart of what we do. It's a **significant investment** and **focus** for us.

> Andy Jassy CEO Amazon (August 2023)



Despite cloud slowdown, transformation at media businesses continues

		Financial Trends	Tech Decision-Making
ď	Linear	Revenues growing slowly or declining	Keeping costs lowDoing more with less
	Lineai	Healthy operating margins	
	Digital	Revenues growing at a high rate	 Not keeping costs low Investing in potential
		Still loss-making for most	

Sources: IABM

Transformation pushes investment in technology despite financial pressure



Sources: IABM, NET growth consists of subtracting the % of companies saying that budgets/revenues are decreasing from the % of companies saying that they are increasing

Despite cloud slowdown, transformation at MediaTech suppliers continues as well



MediaTech primary revenue sources

Sources: IABM

Continuation of hybrid/remote work is a catalyst for continued transformation



Broadcaster responding to our MediaTech Business Tracker

The lockdown has opened the Pandora's box of remote work capabilities and I believe we will have to explore accommodating these capabilities to attract and retain talent

> Broadcaster North America (February 2023)

Sources: IABM, WFH Research

MediaTech Convergence

MediaTech suppliers are increasingly pivoting outwards to look for growth



Most important parallel markets

Sources: IABM

MediaTech Convergence

Impact of convergence on MediaTech: Impact by segment

		Segment	Convergence Impact on MediaTech	Facts
Content Supply Chain	00 1	Creation	Immersive and virtual production	Growth of smaller/more versatile creation equipment and virtual production in the last three years
	۰Ť.	Management	DAM/MAM convergence	MAM providers increasingly selling to non-media markets (e.g., 38% of iconik MAM assets are non-media)
	⊖ <	Distribution	Rollout of interactive experiences	Companies such as Brightcove and Vimeo focusing on enterprise video through a mixture of data and interactivity
		Infrastructure	Cloud/edge infrastructure	Infrastructure providers such as Akamai have focused on bridging cloud and edge to allow for interactivity, AI chatbots etc.

Sources: IABM, iconik

MediaTech Convergence

Despite the challenges, new generations demand converged experiences

50% 45% 40% 35% 30% 25% Age 35+ 20% Age 13-24 15% 10% 5% 0% ΤV Social Media Non-premium Video (e.g., YouTube) Gaming Broadcast Social

Entertainment habits in 2022, by generation

Sources: IABM, Hub Entertainment Research



Technology in Focus: AI/ML

State of Al Adoption Adoption by Broadcast & Media industry



Technology roadmap in M&E

AI/ML Adoption Rate



AI/ML & Analytics ranks 5th most important tech trend in M&E's technology roadmap, with most technology buyers planning to deploy it in the next few years. The adoption of AI/ML technology is enabled and correlated by the growing cloud adoption rate, which reached 60% in 2023, jumping up from the previous year (51%). In 2023, on average 23% of media and production companies had adopted AI/ML.

Strengthened AI/ML adoption reflects media businesses' increasing interest in Generative AI and particularly its potential applications in Produce and Manage.

Source: IABM

Source: IABM

Application by Content Chain Segment



AI application by Content Chain

Cloud service providers' AI/ML capabilities continue to gain popularity



AI/ML deployment options

The move to the cloud is providing media companies with access to a wide range of AI/ML solutions provided by public cloud service providers that are increasingly media-specific and easy to use.

As data volumes continue to skyrocket, media companies are increasingly looking for AI solutions and pre-trained AI/ML models that can accommodate large amounts of data throughput and analyse it in real-time, provide predictive insights and recommendations to optimize cloudbased operations and costs.

Generative AI – requiring massive computing power and large datasets – is making public cloud service providers' platforms an attractive environment to deploy pre-trained AI/ML models (i.e., Foundation Models, FMs) as a service.

Source: IABM



Source: IABM, AWS, Google, Microsoft

Cloud services investing in Generative AI to boost revenue growth

25% 20% 15% 10% 5% 0% Q1/2023 Q2/2023 Q3/2023

AWS' global revenue growth in 2023

Amazon Q3 2023 earnings call

Generally, I feel the business has stabilized, and we're looking forward to the back-end of the year [2023] in the future because there's a lot of new functionality coming out with — and there's a lot of spend that will be in this area for all the great solutions that are out there for generative AI and large language models, as well as machine learning solutions that we've always had for customers. So, [we're] optimistic and starting to see some good traction with our customers' new volume.

> Brian Olsavsky CFO Amazon (August 2023)

Thank you!