

Innovation and Creativity

Sensor based interactive digital storytelling

Prof. Andrew Perkis, Dr. Techn., MTM

GAMI/NxtMedia Board member, NEM Executive Committee observer

Department of Electronics and Telecommunications Norwegian University of Science and Technology



WAN-IFRA http://mid.wan-ifra.org/
Global Alliance for Media Innovation

Backdrop

Major change in research approach

- How can news media benefit form the 2-4 year time span of our research
- How can our research and innovation benefit from a shorter time frame of 6-12 months closer to immediate news media needs

Major vehicles for the change

- GAMI
 - Global initative for connecting academia and the industry
- NxtMedia
 - Norwegian Cluster
- NFM
 - Proposal for an Interactive and Immersive Content PPP (I2C)
- Horizon 2020
 - Partner SmartSet (IA:ICT-19) and VisualMedia (IA:ICT-19)



RIA directions



- NTNU focus
 - IMTE Immersive Media Technology Experiences
 - Sense-IT
- GAMI/NEM directions
 - Immersive content and new forms of narratives
 - Sports
 - 12C
 - Data exploration to support the modernization of journalism
 - Mobility wearability Internet of Things Smart Cities
- Relates to H2020 WP2016/2017
 - ICT 14,15, 16, 17, 18
 - Big data for news media
 - ICT-19, 20 and 21
 - News and publishing sector
 - Immersive narratives
 - ICT-36
 - NxtMedia clusters

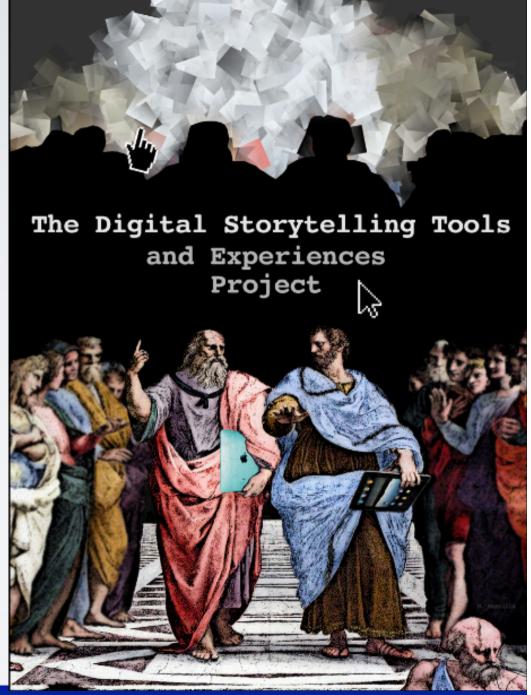








Combining old and the new storytelling tools creating **Immersive** Media **Technology Experiences** (IMTE)



IMTE



Immersive

· Reality (VR/AR), art, aesthetics

New digital media



Media technology

- · Multimedia signal processing
- · Visual communications
- · Networked media handling

Experiences

- · Users, useful, individual
- · Quality of Experience, truthful
- · Value Chain



New modalities / tools / screens



source: gemini.no



http://summit.immersiveeducation.org/sponsors exhibitors.html



http://oculus.quitebeyond.de/hunger-los-angeles-immersive-journalism/

http://ispr.info/2014/08/25/project-syria-uses-vr-to-bring-trauma-of-syrian-war-to-life/



http://www.immersivejournalism.com/

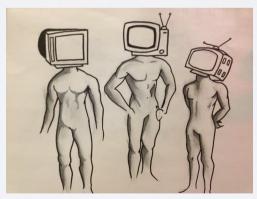


Challenges for storytellers

Immersive narratives: How do you tell a story surrounding the audience making them participants

- Content base
 - Sensor data
 - Archived Text, Audio, Video
 - Capture, 360 cameras
- Visualisation
 - Screens
 - Spaces
- GUI/NUI
 - Interaction







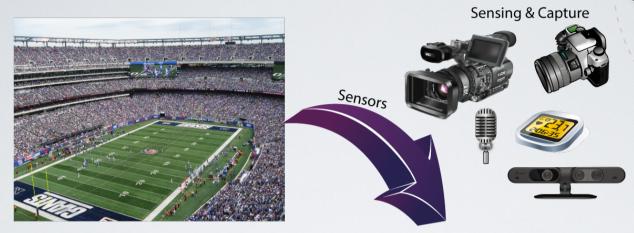


What does it take?

- Idea
 - Creativity, narrative
- Design
 - Electronics, Computer graphics, Models (Blender,)
- Animation
 - Rules (Unity)
- User
 - Visualisation (CAVE, Head Mounted Display, Display, ...
 - Interaction (GUI, NUI)
 - Tasks, skills



Creates a Sense of Being There



The space in between

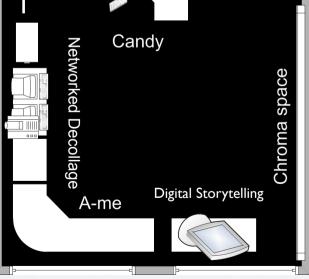


Sense-IT - NTNU Immersion lab







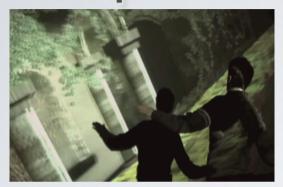








Immersive Media Technology Experiences







- Media Technology Meets Entertainment
- Media Technology Meets Oil and Gas
- Media Technology Meets Medical
- Media Technology Meets Art
- •Media Technology Meets News?





Show cases

Midgard Media Lab











NxtMedia



PICTURING THE BRAIN

Perspectives on Neuroimaging 2010–2014



PerFormativity
- Art, Communication and Knowledge Formation











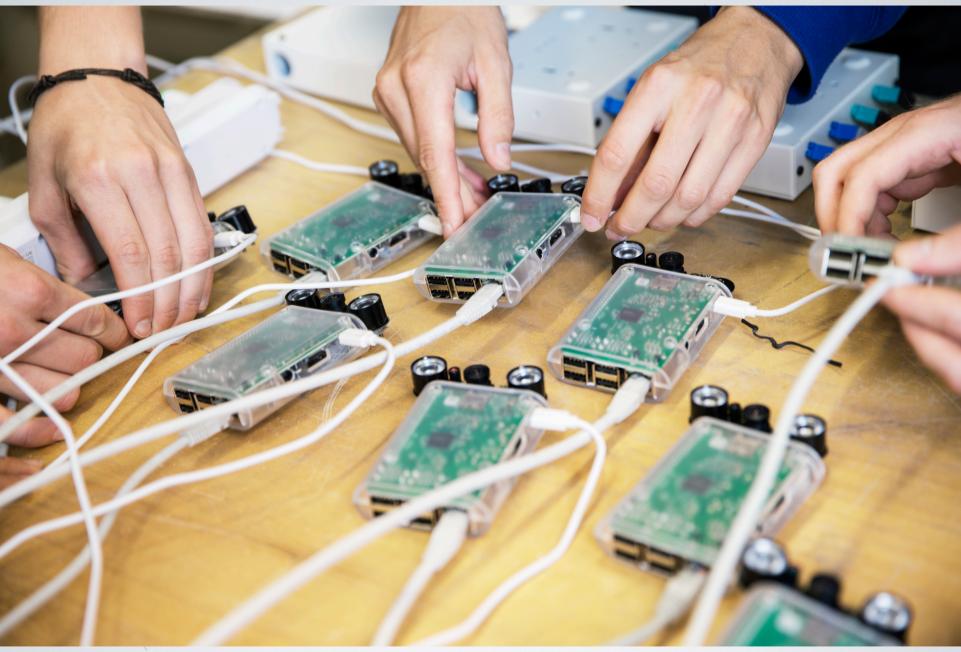


Innovation and Creativity

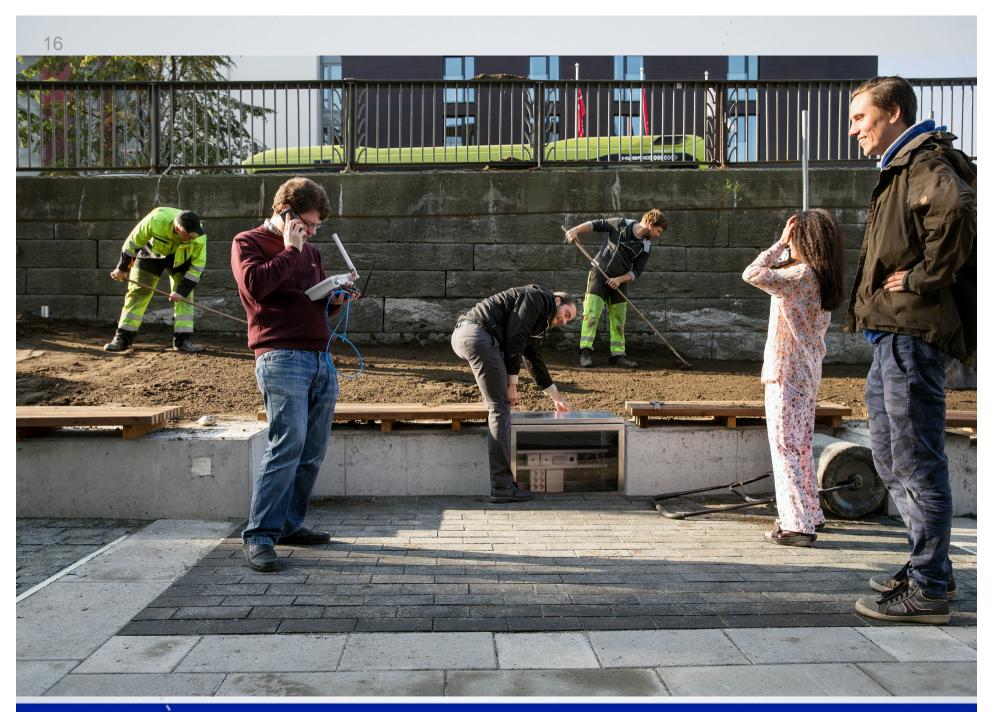
Parken Immersive Media Technology Experiences

Prof. Andrew Perkis, Dr. Techn., MTM, Dr. Wendy Ann Mansilla Jordi Puig, Alfredo Perez and Arnfinn Killingtvei Department of Electronics and Telecommunications Norwegian University of Science and Technology

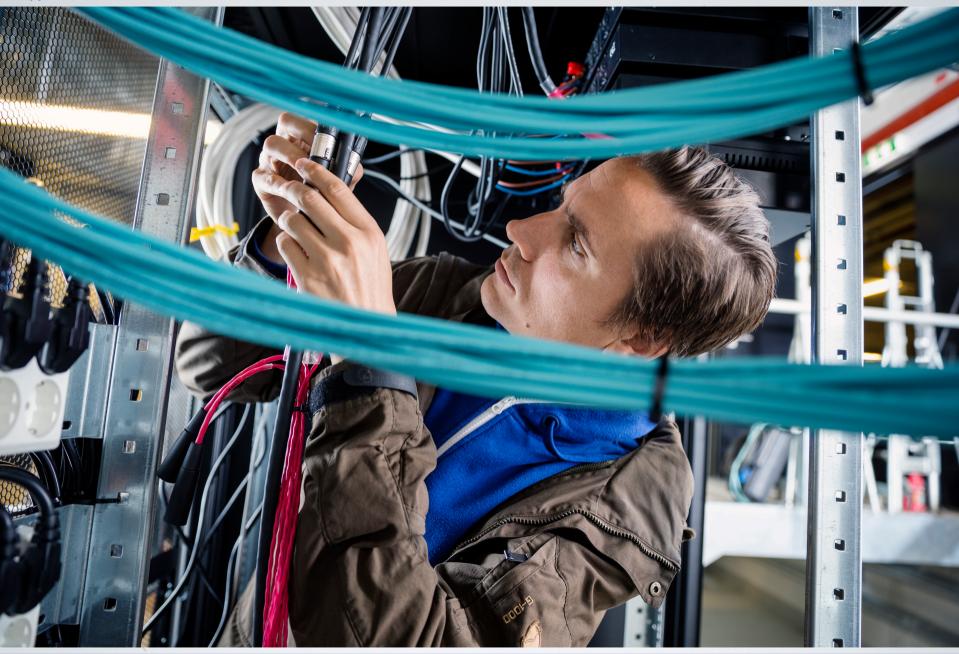


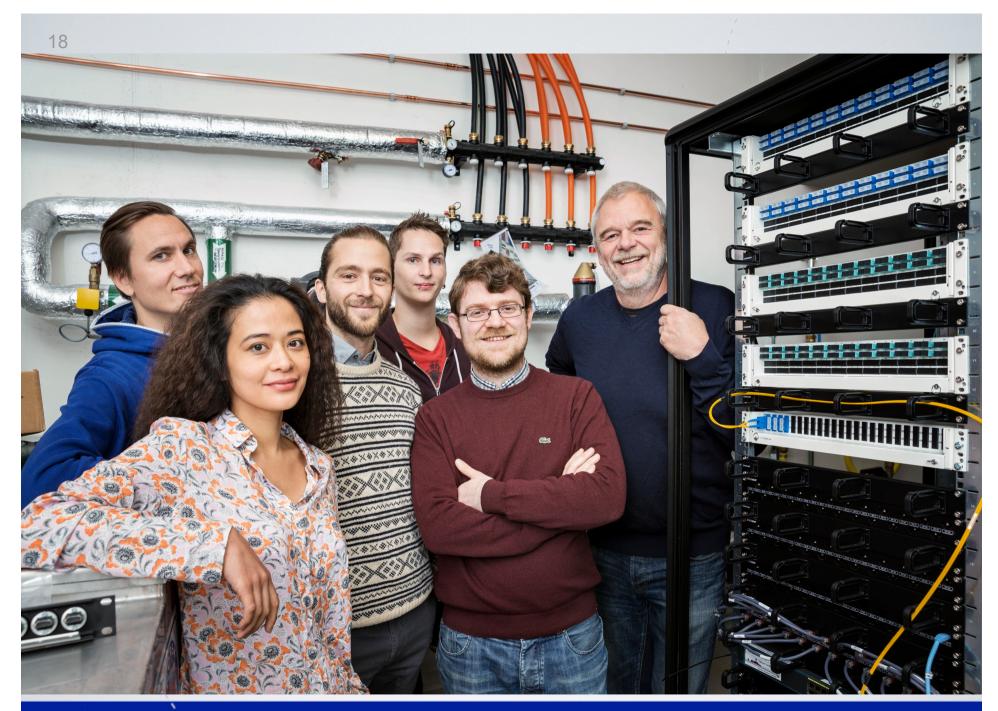












Case: VisualMedia



- Duration 24 Months (01.01.16)
- Funding: 3.618.417 EURO (34 MNOK)

Immersive and Interactive Real Time 3D Social Media Graphics Environments for the Broadcast Industry.





Events













Deniz Ergürel R&D Director, Zaman Media Group Turkey



Mel Slater
ICREA Research Professor,
University of Barcelona
Spain



Niko Chauls
Director Applied Technology,
Gannett
USA



Louis Jebb Founder & Chief Executive, Immersivly Ltd UK



Europe2016



Key take away

- Good show cases from integrating academia and news and publishing
 - Creates engagement in Research and Innovation
 - Facilitates knowledge transfer
 - Encourages participation in H2020
- The H2020 Work Program 2016/2017
 - Has opportunities for the News and Publishing sector
 - Can show the importance of the News and Publishing sector
 - Requires raised awareness of the News and Publishing sector to be successful

