



**Cluster**

- Digital Transformation: Strategy, Success Factors, 16%
- Defining Industry 4.0, 10%
- Global AR Market Growth and Size, 8.1%
- New AR Experience, 7.8%
- Industry 4.0 And Impact Financing, 7.4%
- VR in Education and Training, 5.6%
- Accelerate Enterprise Digital Transformation, 5.1%
- Digital Transformation Successes, Failures, and Analyst Studies, 4.4%
- AR Marketing, E-commerce, Retail, 4.0%
- Health care VR, 3.9%
- AR Applications in Manufacturing, 3.9%
- AR Glasses, 2.4%
- India- Schneider Electric Study, 1.4%
- Mobile AR Market Growth, 1.3%
- Mobile AR Market Size, 0.72%
- NexTech AR Launches Game-Changing 3D, 0.63%
- Capture AR Solution, 0.54%
- Digital Transformation Market, 0.51%
- Emerson Establishes Digital Transformation Business, 0.47%
- Middle Market Manufacturers Recognize Industry, 0.44%
- UK Businesses' Digital Transformation Success, 0.42%
- The AR System, 0.37%
- Global AR Software Market, 0.33%
- Implement AR, 0.28%
- Volvo/Ford Automotive Design, 0.26%
- Voxware AR Solution, 0.21%
- Digital Transformation Plan, 0.19%
- Digital Transformation Projects, 0.19%
- Digital Transformation, 0.16%
- Digital Transformation Returns, 0.16%
- Global AR, 0.16%
- Philips/Microsoft Minimally Invasive Surgery, 0.16%
- Smart City Investments, 0.16%
- Stalling Digital Transformation Plans, 0.16%
- Facilities Management Digital Transformation, 0.14%
- Reality Customer Assistance Service, 0.14%
- Analog Devices Launches Isolation Technology, 0.12%
- AR Market Global Demand, 0.12%
- Digital Construction Works, 0.12%
- Digital Transformation Conversation, 0.12%
- HS2 (High Speed Rail), 0.12%
- Hexagon PPM, 0.12%
- Intelligent Technologies Key, 0.12%
- Israeli AR Start-up, 0.12%
- Your Digital Transformation, 0.12%
- 2019 Smart Manufacturing ROI Almanac, 0.09%
- Digital Transformation Consultancy, 0.09%
- Industry 4.0 Manufacturing, 0.09%
- Lonza Selects Rockwell Automation, 0.09%
- Manufacturing, 0.09%



To provide insight into whether the literature (news articles) suggests benefits of XR, Digital Transformation, and Industry 4.0, APL's Christina K. Pikas (BS, MLS, PhD, Librarian and Service Manager) did some analysis in January 2020 using Quid. Quid reveals "connections, trends, and insights that will help you understand the story behind your customers, competitors, markets . . . and brand[s]" (<https://quid.com/>). A search on the terms ("Digital Transformation" OR "XR" OR "augmented reality" OR "virtual reality" OR "mixed reality" OR "Model-based design" OR "Model-based engineering" OR "Industry 4.0" ) AND ("success" OR "ROI") resulted in the two maps above. The lower, more colorful one is a map of the news article network with 4277 stories colored by clusters and sized by degree. The upper map traces sentiments related to those same news articles colored by sentiment and sized by degree. The striking revelation in this analysis is the overwhelming positivity of the discussion around XR.