Welcome back







The Virtual High Level Forum in numbers:



unique delegates from



different countries



What is the Future Trends report?

- The Future Trends report provides expert opinion on the mid to long term-developments in geospatial information and is a strategic insight document for all countries and the global geospatial information community.
- It is broad in nature, looking at emerging trends in technology, legal and policy, skills and training, the private and non-governmental sectors, and in the role of government.
- The third edition of the Future Trends report provides updates and includes key emerging trends not previously covered.



Future trends in geospatial information management: the five to ten year vision

THIRD EDITION



A truly global collaborative effort

In 2019, an inclusive global engagement and consultative process was initiated that sought views on the future trends that will impact geospatial information management over the next five to ten years.

So far, 103 UN member states, organisations and relevant expert stakeholders from all over the world have contributed to this revision of the Future Trends reports.

We wish to thank all those who have contributed to the development of this report and provided their expertise and professional insights.



UN-GGIM @UNGGIM · Aug 6

The @OrdnanceSurvey are taking the lead in updating the "Future Trends in

Geospatial Information Management" report, a five yearly review of innovation, disruption, and frontier-tech in the @UNGGIM Geospatial community.



The nature of disruption

- Relevance of data integration and interoperability increase
- Products and solutions produced from multiple data sources becoming the norm
- New opportunities for data gathering, i.e. autonomous vehicles
- Crowdsourcing and VQI become established ways of data collection
- High-resolution highrevisit Earth Observation data become valid alternative to aerial imagery
- Big Data processing has become a normal path of geospatial data processing
- Integration of multiple data sources requires licensing harmonisation
- Digital platforms provide access to data at
- Linked Data enables knowledge-on-demand

- Ubiquitous connectivity enables deployment of new tech
- Digital infrastructure through sensors and the Internet of Things
- Interconnecting modes of transport through intelligent mobility
- Digital Twins for modelling, simulation and prediction
- Wide uptake of edge computing to enable intelligent mobility, the Internet of Things, and smart cities
- Visualisations and immersive technology widely used to enhance customer experience and decision making
- Machine learning, deep learning, and Al disrupt geospatial production
- Quantum computing enables intensive processing

Technological

advancements

These trends should not be considered in isolation

It is recognised that disruption and change in the geospatial industry are likely to occur as a result of the linking of multiple trends.

- Rise of products and services specifically designed for the urban environment
- Demand for real-time information provision
- Digital divide and exclusion continue to hold back universal digital transformation
- Seamless experience between outdoor and indoor mapping becomes an expectation
- Viable integrated Smart City solutions becoming wide spread

- Increased diversity at work in technology. science, and innovation
- Talent and consumer shift - changing values and attitudes
- Incubator spaces enable innovation to enter markets swiftly
- Regeneration of business ecosystem through the rise of nongeospatial start-ups
- New collaboration agreements with industries outside of geospatial emerge

- Digital ethics and privacy addressed by national and international initiatives
- Cybersecurity conversations increase in tandem with increase in digital devices
- Pace of digital and tech change puts pressure on national institutions to address policy and legislative shortcomings
- Pressure on government institutions to be more tech and digital savvy

Evolution of user requirements

Industry structural shift

Legislative environment

Ordnance Survey

Rise of new data sources & analytical methods

Drivers

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Transformation and bridging the digital divide

Many of the chapters in the 3rd edition of the Future Trends Report touch on 'state of the art' developments in geospatial information management including topics like big data analytics, artificial intelligence, automated feature extraction, change detection and the emerging impact of the platform economy, new business models and issues associated with privacy and trust in data.

Every nation will experience a transformation in their response to these trends in the next ten years; the report tries to recognise that every nation is starting from a different place, starting with different experiences and different current policy contexts. Different levels of geomaturity are acknowledged.

Discontinuous change can be expected to occur with opportunities for many nations to leapfrog into the future and make rapid progress in crossing the digital divide.



