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technology

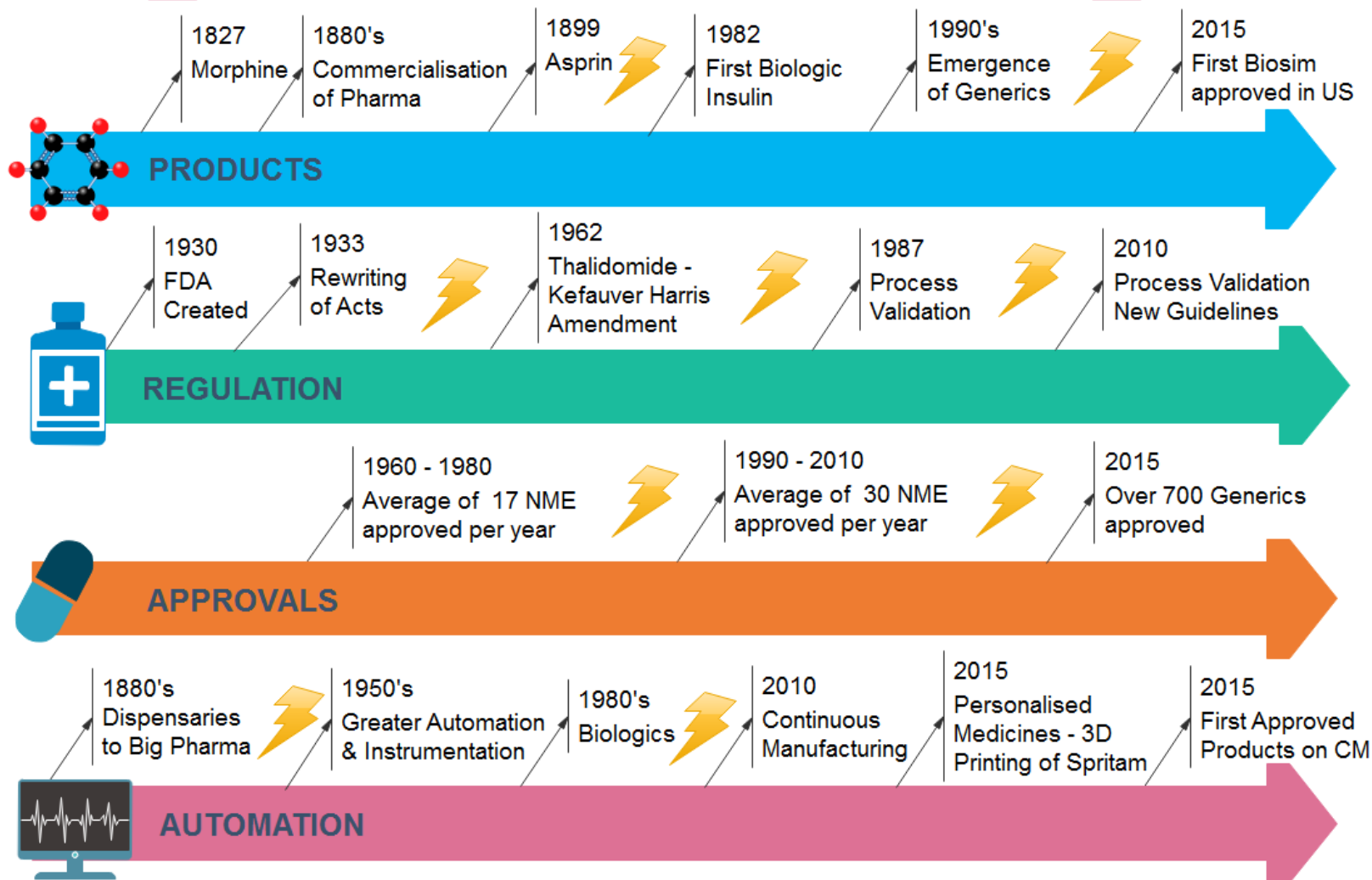


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education

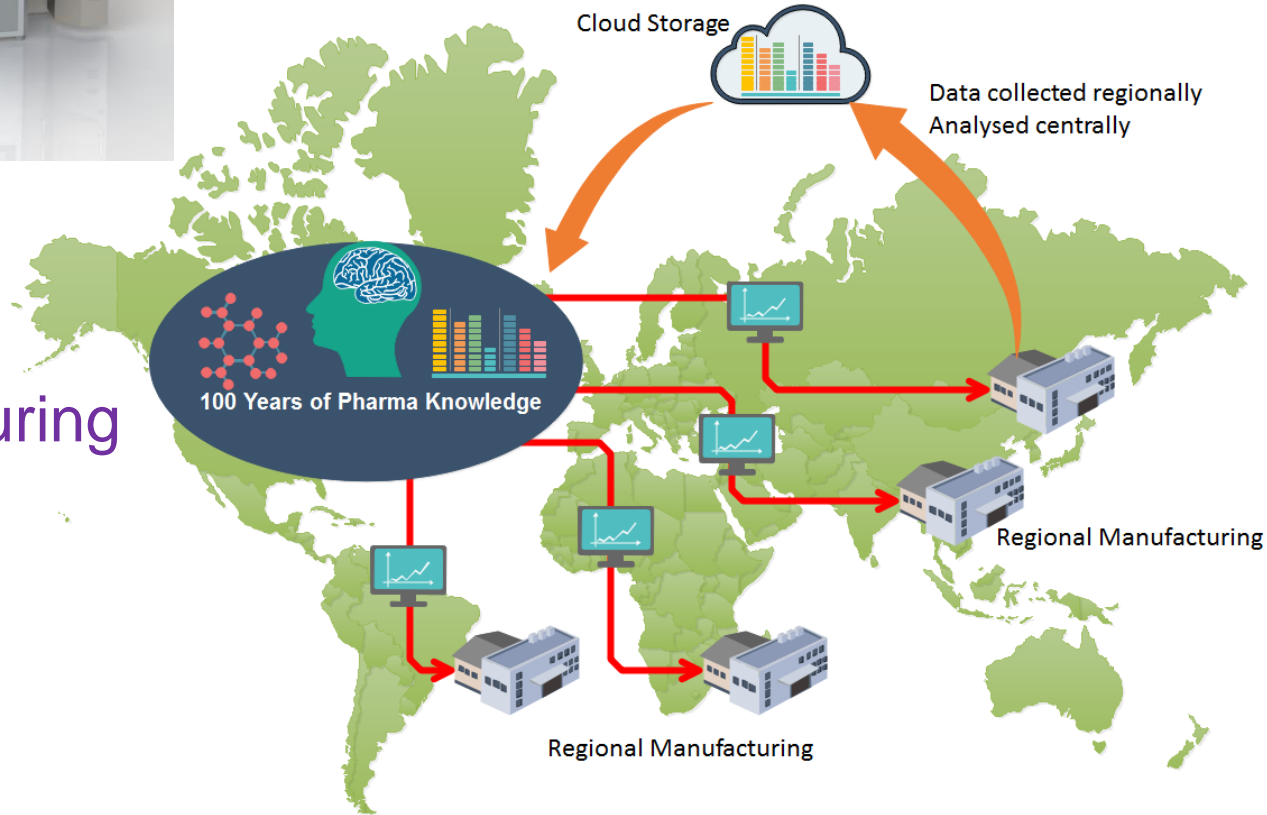
The Future of (Bio)Pharmaceutical Manufacturing: an
industry at the crossroads
28/02/17



Continuum of Innovation in Pharma



Pharma Development and Manufacturing The Present and the Future...



Biologics
Continuous manufacturing
Automation
IoT
3D printing



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Conclusions

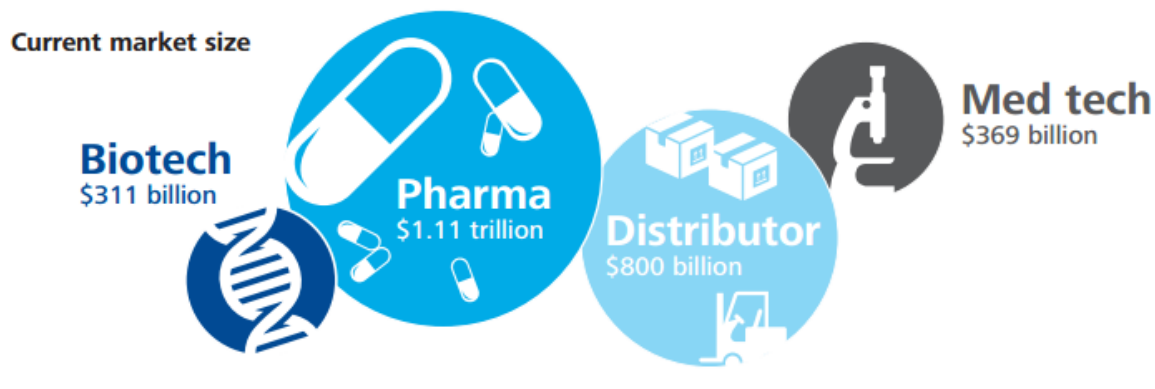
- World is changing very quickly (from IoT enabled connectivity to data analytics)
 - Enabling more agile, mobile development and manufacturing approaches
- This will have the affect of globalisation of knowledge for these industries
- The infrastructure and skills to support this needs to be supported
- The Crossroads!!!
- Proposal for EU-supported innovation is timely
- Benefits for patient and society



Pharma Trends Worldwide

- Growing and ageing populations around the globe have greatly increased demand for medicine and health products
- The global life sciences sector is already large and growing rapidly
- Population growth is the main factor increasing demand for life sciences products – emerging markets have emerging middle classes that are demanding access to a suite of healthcare and consumer products
- The world's population continues to rise rapidly, and will increase to around 8 billion by 2025
- As a result, the field of life science – which comprises of Pharma, BioPharmaceutical, Device and Consumer Health companies – has become a trillion-dollar global sector
- There is a high level of global competition for the most talented science, technology, engineering and math (STEM) staff – especially graduates with highly specialised skills

Between 2000 and 2050, the WHO expects the global number of people over 60 to double – and be 22% of the world's population by 2050



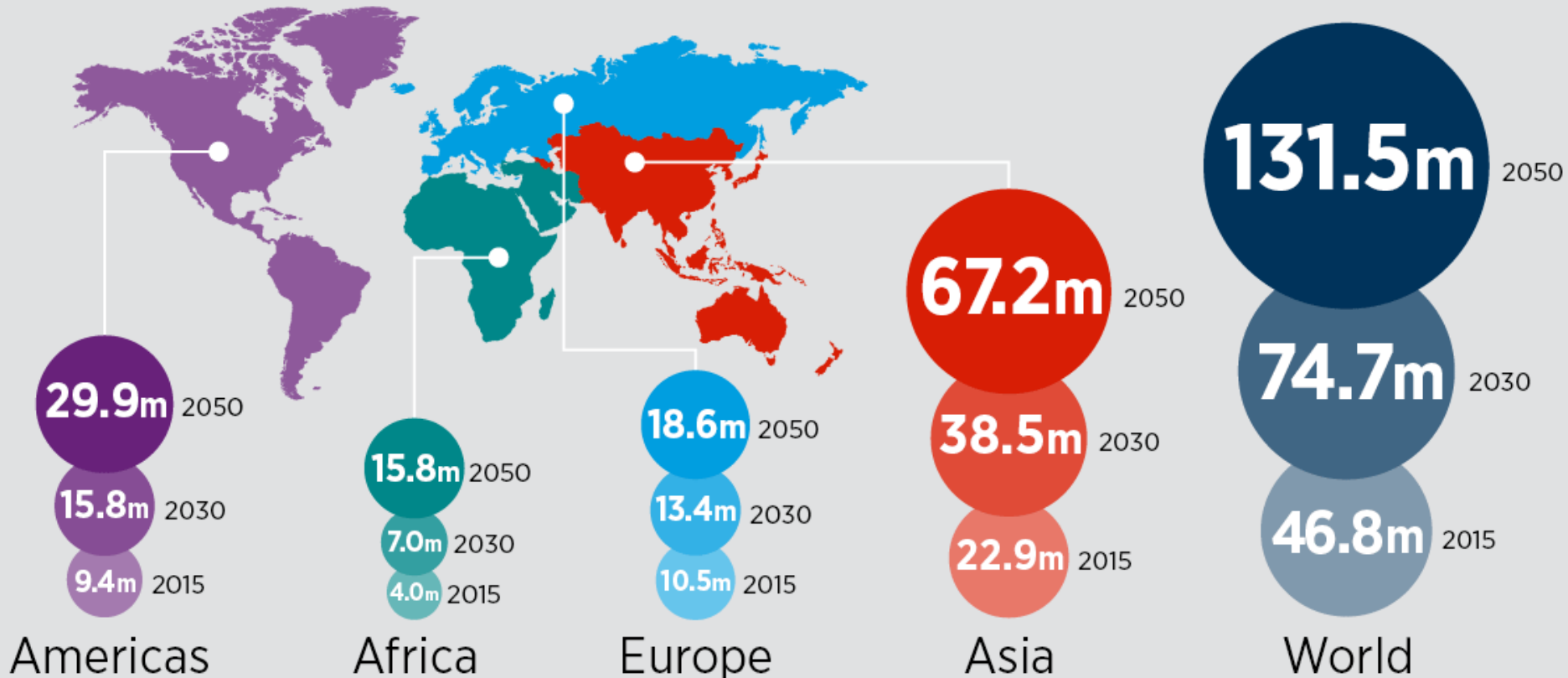
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Alzheimer's Disease – Growing Challenge



World Alzheimer Report 2015
The Global Impact of Dementia

People living with dementia around the world



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