## Applications & Services in the Year 2021 – Technology and Policy Implications

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27 January 2016





## We need to Measure, Monitor, Model & Manage data from multiple devices, in multiple scenarios, with end to end trust and security



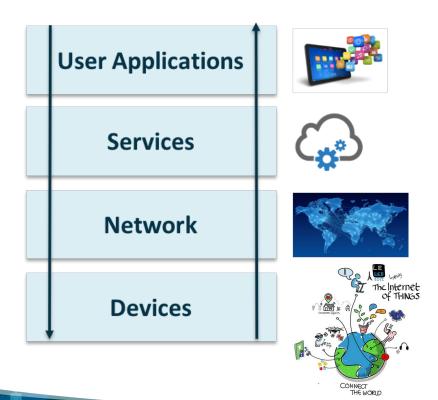
- As the physical world becomes connected to the digital world, more "things" will be in play:
  - 2014: 13B+ Internet of Things devices
  - By 2020: 25B to 200B "things" will be connected
- Generating massive amounts of data
  - Zettabytes (10<sup>21</sup>) by 2020
  - Then Yottabytes (10<sup>24</sup>)
  - Then Brontobytes (10 <sup>27</sup>)







Nearly all the "things" and associated Applications & Services in 2021 will be interconnected & need to work in harmony. Securely.



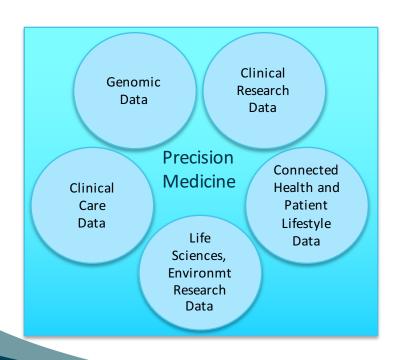




## Smart Cities will be an inter-connected "system of systems" to improve efficiency, safety, quality of life, energy use, the environment



## Precision medicine will become real leveraging data from genomics, clinical research, clinical care, IOT, environment & patient lifestyle data



Connecting People to a Healthy Future (2012)



http://www.kp-itcomms.org/mm/digitalhealth/index.html



POWERED BY COMMUNITY

Addressing TIPPSS is essential to achieving safe, secure, scalable Applications & Services in 2021 – with technology and policy implications

Trust
Identity
Privacy
Protection
Safety
Security





