Geospatial in Health

It's about time

4-6-2021

Jennifer George
CEO Strategic Commercialisation Australia
Jgeorge@scaus.net
Its about time

Health has many parts

- Diagnosis
- Treatment
- Contamination
- Recovery
- Near-term prevention
- Long-term prevention
- Chronic and long-term care.
Diagnosis, Progression & Contagion
Covid-19’s effect can be massively improved by early diagnosis and targeted treatments.
Many digital innovations reduce time to diagnosis...Here are a few

- Using AI, a new test for Sepsis has been developed that takes one hour to test 20 of the most common diseases caused by pathogens instead of a series of 3 day cultures.

- A new device has been developed that allows Sepsis symptoms to be identified at home without having to wait to go to the doctor.

- A new helmet has been developed to identify, in a plane or an ambulance, if a patient has a clot stroke or a bleed stroke so treatment can be begun right away.

- A mobile phone app exists that can identify the type of cough your child has, with 85% accuracy.

- There are digital twins for health that use advanced bioinformatics to match an individual’s DNA with the limitations of more than 300,000 specific treatments- here is important to know that more than 1/3 of the western world’s population has no treatment for their specific disease.

- There are also fully mobile ECG machines, units to conduct real-time tests for epilepsy, diabetes, pain, heart disease in your home, and pretty soon you will be seeing technologies that utilise the brain computer interface.

- Connecting all these technologies are fit bits, telehealth, big data, AI, & cloud computing

- …And looking forward the new silicon chips (and equivalents) will mean the number of available and connected devices multiplies exponentially.

Connect these to environmental data and we would have a huge impact
In our rush to reduce time let’s not forget accuracy
So what has this got to do with Geospatial in Health Data
IMPACT
Reduce the time to diagnosis,
Limit the spread of disease
with expedited data analytics
…connected
and delivered real time
in data rich environments
Standards

Our health standards and many of our digital standards are built around the minimum.
DO NO HARM.

By integrating health data and geospatial models we have an opportunity to bring together data sets and individual health information to do more.

DO MORE FOR EACH INDIVIDUAL with customized data solutions.
In closing, let’s go back to Stephen Hawking