

European Healthcare Design 11-12 June 2017

The Efficient Healthcare System of the Future

John Kelly | Director of Healthcare Planning

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The future of healthcare...

...rip it up and start again?



Disruptors ?



Sir Robert Naylor



Beyoncé, Superbowl 2016



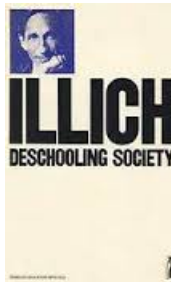
Liam Gallagher



Elon Musk



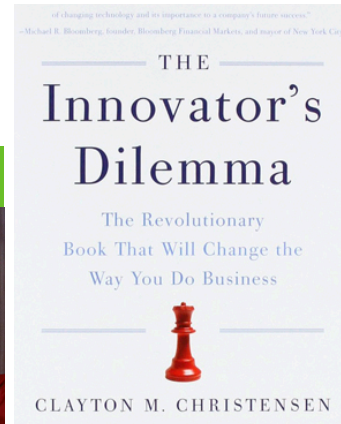
Suffragettes



The Sex Pistols



Rebel Without a Cause



Guy's and St Thomas' NHS FT

London Bridge, Waterloo and across SE London

Guy's Hospital, London Bridge



St Thomas' Hospital, Westminster Bridge



community
care sites

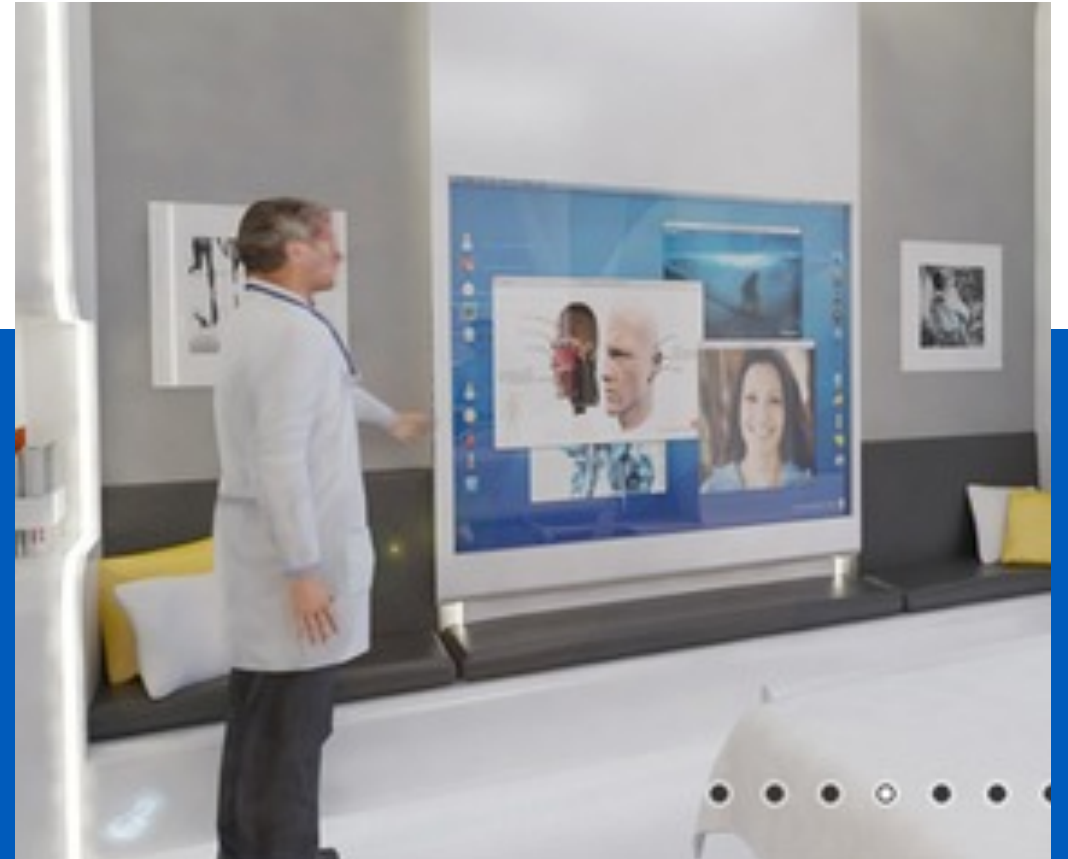
Convergence of circumstances ?

- Collaboration, automation, 24/7 working
- Personalised care and treatment
- New technologies and connectivity
- IT savvy patients will be smarter consumers of healthcare services

1 in 15

hospital admissions linked
to adverse drug reactions

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Hospital 2020, NXT Health

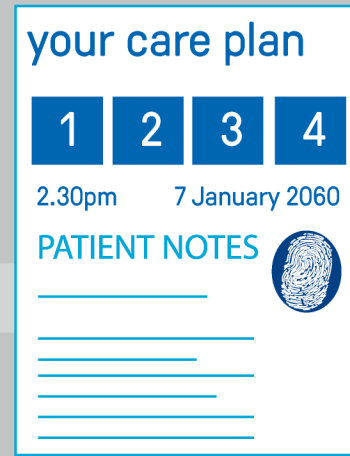
START



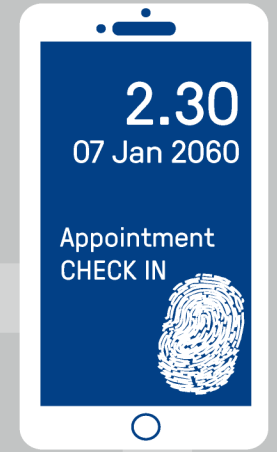
App generates GP appointment



Teleconsultation and pre-screening



Patient Care Plan issued



Admission: Smartphone check-in

END



Back at home



Discharge: Driverless vehicle



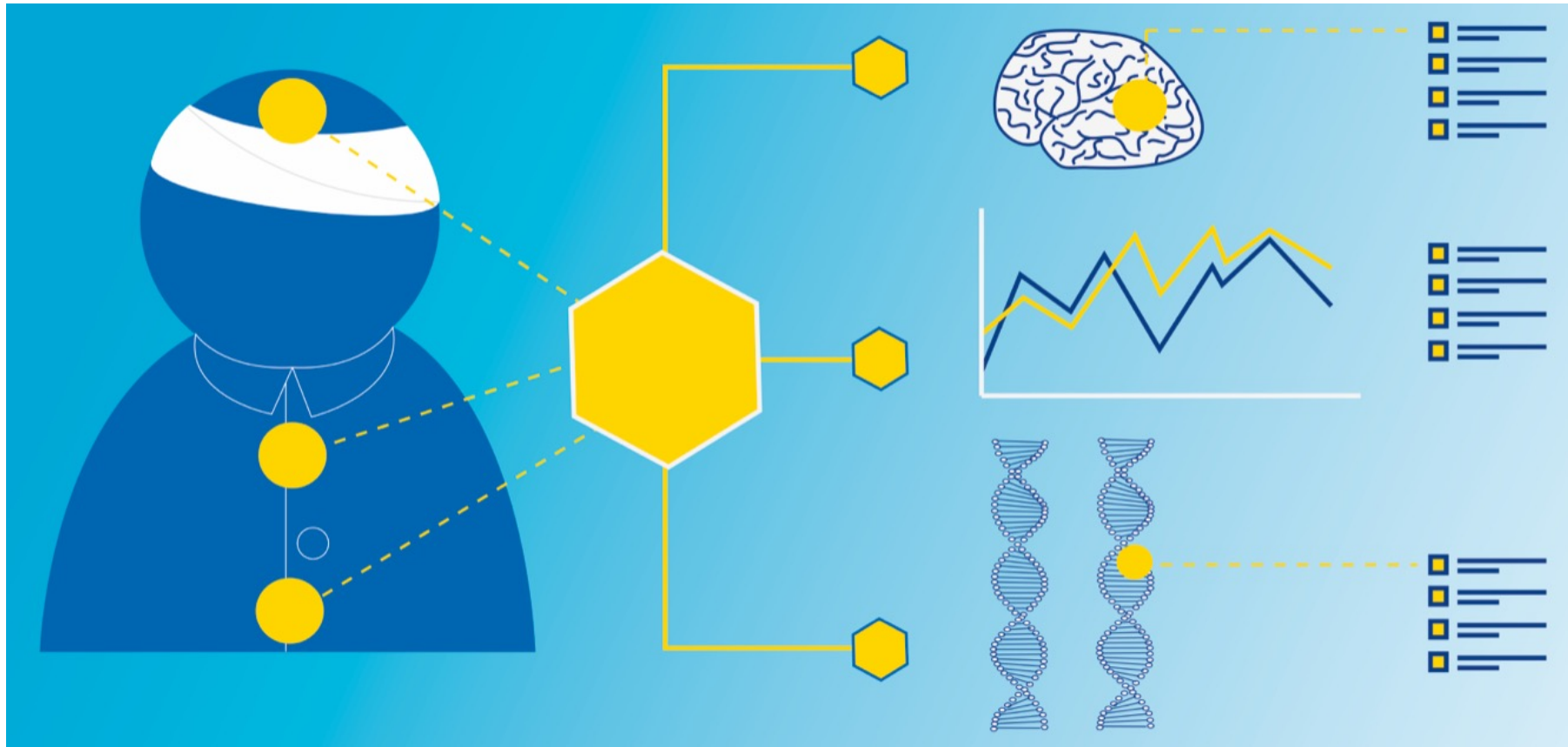
Multi-acuity room



Hybrid theatre or generic room

Interventions

Image-guided procedures



Smart, non-invasive technology and methods will replace traditional, more invasive procedures

34%

reduction in non-attendances by introducing webcam appointments for diabetes patients in Newham

In-patients

Adaptable rooms and patient monitoring



Hospital 2020, NXT Health



Hospital 2020, NXT Health

Outpatients

Using mobile technology

- Local care network hubs
- Home diagnosis/monitoring using smart technology
- Pre-assessment checks at home via automated, algorithm based consultation
- Telemedicine clinics with remote doctor locations

Over **250,000**
health apps on the market



Workspace

The technology to work anywhere



Smartphone Ultrasound



Hospital 2020, NXT Health

Logistics

- Off-site logistics hubs
- Intelligent logistic systems
- Sophisticated ordering and monitoring systems
- Automation will extend to bed cleaning
- Patient movement will be minimised



CHALLENGES

Challenges

7 innovations could
save the NHS **£18.5m**



The Simpsons
MATT GROENING

‘The future is already here,
it’s just not very evenly distributed’

William Gibson

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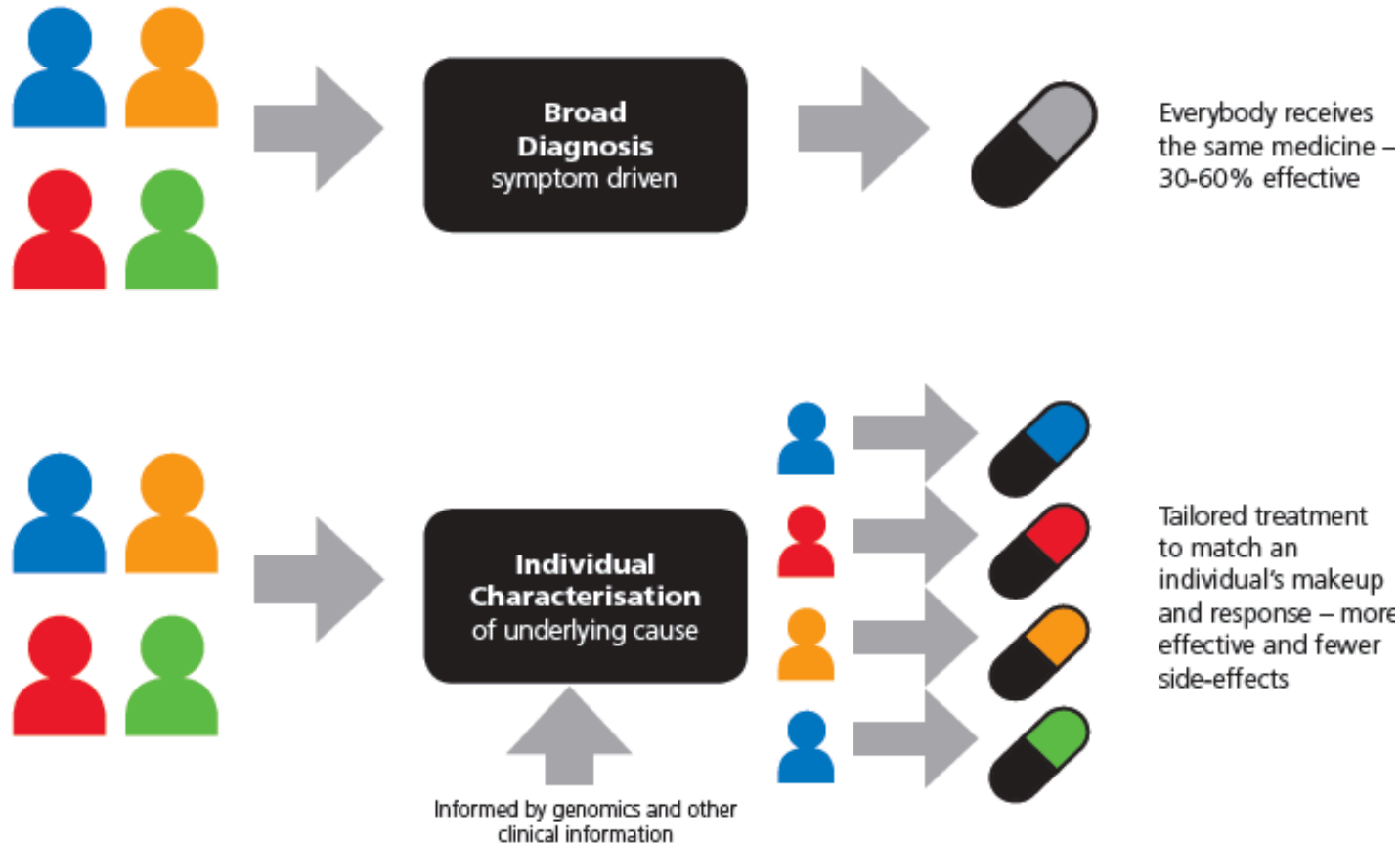
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