

Integrating Hospital at Home



- Hospital at home is split into two basic modes
 - Focus on earlier discharge
 - Focus on admission avoidance
- Predicated on managing the clinical risk of patients using hospital processes and equipment
- Overlap with digital telecare developments
- Overlap with digital self-management, population / public health measures
- A spectrum as acuity decreases, what is the earliest point we can 'step down' safely?
- There will be multiple steps.

Trends











Proposals for a National Health Service

UK Government (1945)

Quality Strategy

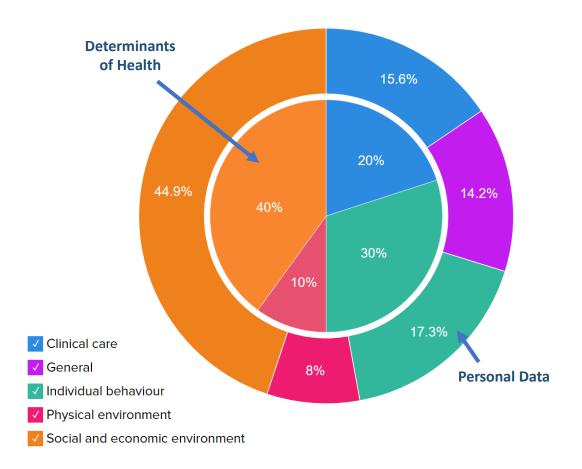
Scottish Government (2010) Care Strategy
Scottish
Government

(2018)

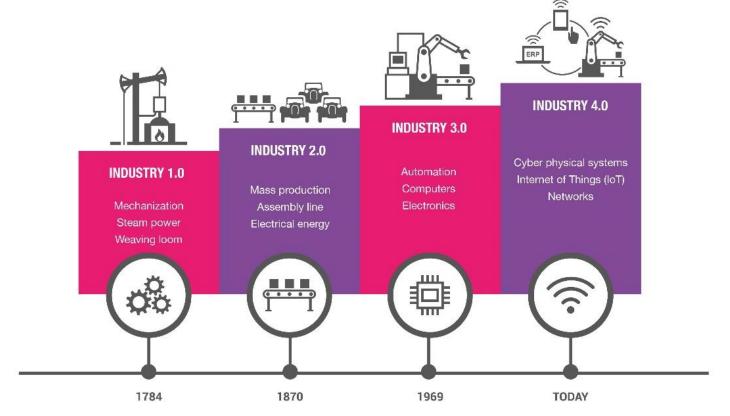
Modern
Outpatient: LTC
Vision
DHI
(2018)

Personal Data by Determinants of Health



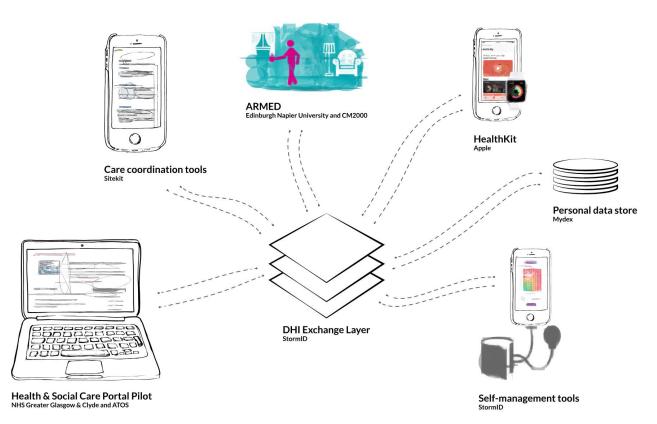






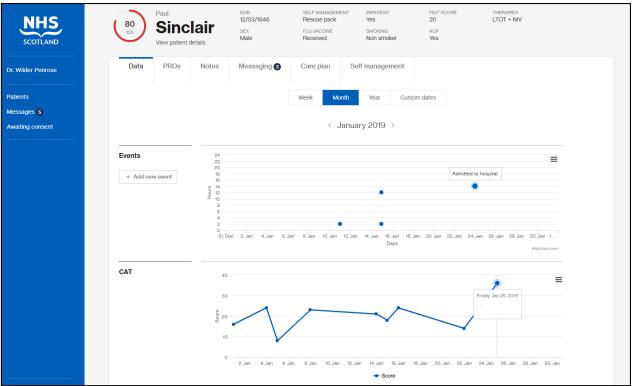
Phase 1b Simulation





Example Simulation 1 - COPD







Example Simulation 2 - Asthma



SELF MONITOR		RULES	BASELINE	SHARE (EXCEPTION REPORTING)	WITH
	COLD	NOTIFY ME WHEN			
HEALTH TRIGGERS	AIR QUALITY	NOTIFY ME WHEN			
	VIRUS				
WARNING SIGNS	O2 SATS	NOTIFY ME		s	SON/ DAUGHTER
	OF VOICE	SUGGEST ADVICE WHEN SHOWING COMBINATION OF			GP
	BREATHLESS	SIGNS WHAT TO DO			FATHER
	DIFFICULTY	WHEN			
	STAIRS				
	CRAVINGS			SITTING UP	SON/
ZZZZ SLEEP	QUALITY	SELF MONITOR SHARE WHEN EX-		IN BED	DAUGHTER
	UP AT NIGHT	CEPTIONS TO NORM		NIGHT TIME WAKING	GP
	BEDTIME				FATHER
片	SWIMMING	MONITOR LENGTH OF ACTIVITY AND	ABLE TO EXERCISE		
	YOGA	ABILITY SHARE DECLINE IN	FOR SET		
EXERCISE	PILATES	EXERCISE LINK TO MEDS	TIME		
	CALORIE				
4	HEALTHY				
DIET	MEAL				
MEDICINE	BASELINE MEDS		INCREASE	INCREASE (excluding	SON/ DAUGHTER
	RELIEVER USE		WITH EXERCISE	extra exercise)	
	(temetraline)				SON/
	AIR CHAMBER			USE	DAUGHTER
	STEROIDS			INCREASED USE	FATHER
					FAIRER

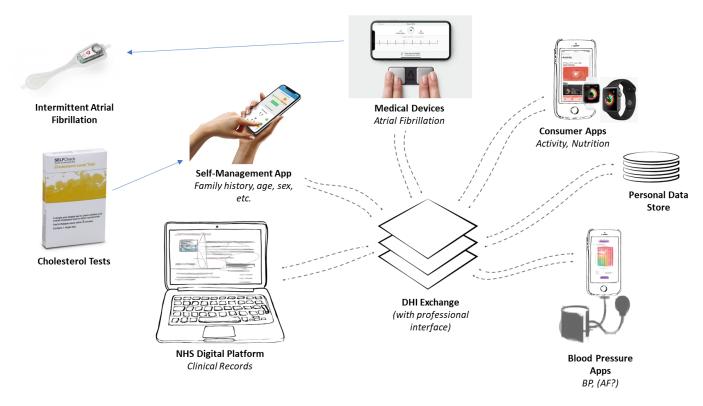


Example Simulation 3 – Cardiac



High Impact Data Set:

- PROMS/PREMS
- BP
- Heart Rate
- Activity Level
- Sleep
- Weight
- Family History
- Medications
- Treatment



An Innovation Hub



- Significantly more complex to orchestrate an open platform ecosystem
- Adherence to standards during innovation
- Safe places to experiment and share knowledge
- Better joint strategy between partners
- New multi-provider, multi-purchaser business models





Google "Care 4.0"

Chaloner Chute, CTO, DHI chalonerchute@dhi-scotland.com