



Integrated Telehealthcare Solutions

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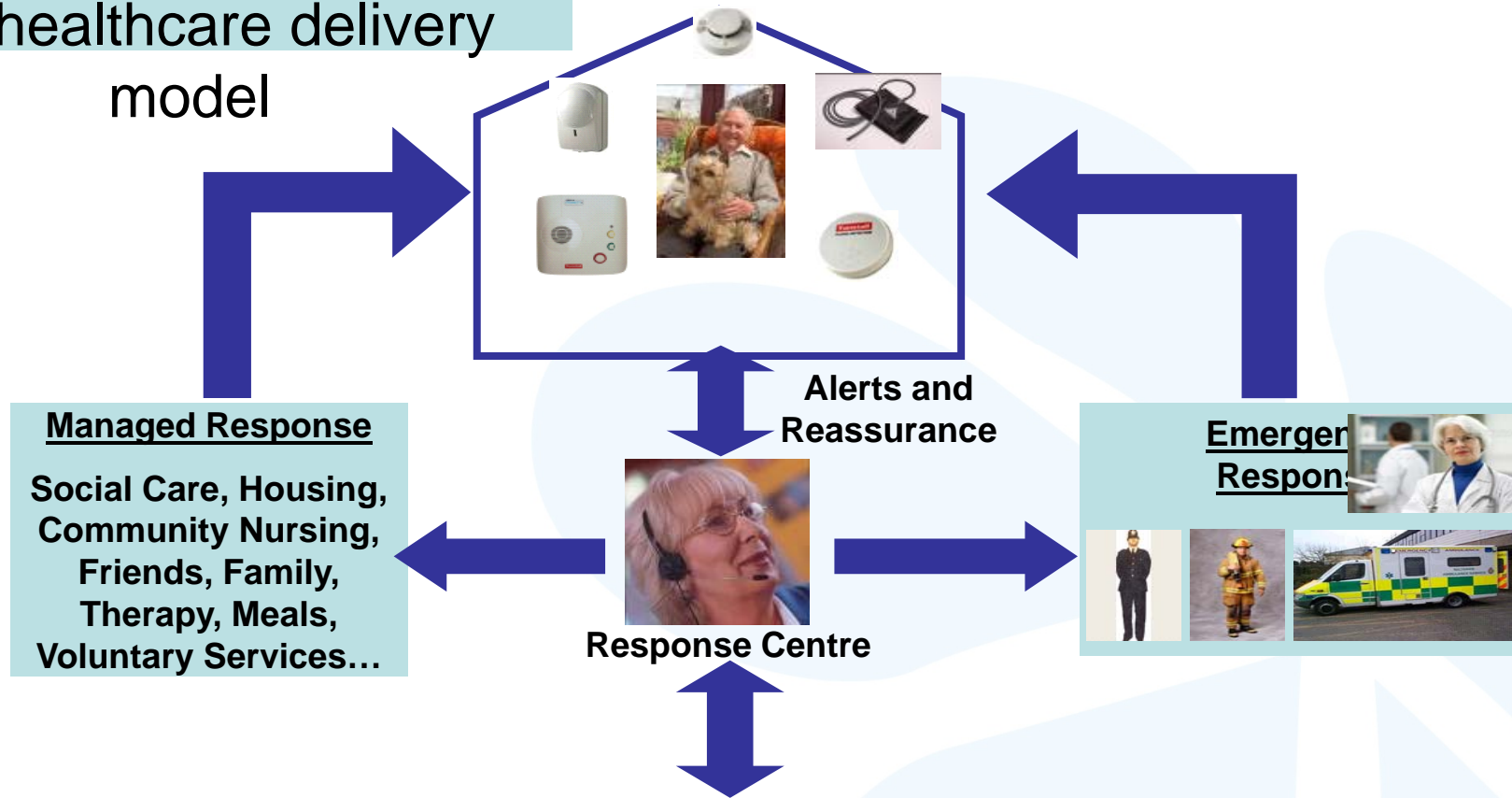
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- Continuing boundaries and lack of integration between the different systems - health, social and housing - in many countries can thus present important barriers to implementation and to achievement of benefits. In addition, within the health system in particular, the lack of structures and processes to support continuity of care and integration of care between the different players and levels (hospital and primary care, general practitioners and specialists, and so on) are an important limiting factor for home telehealth (**-care**).
- **ICT & Ageing, European Study on Users, Markets and Technologies. Jan 2010.**
- support a concerted effort to improve the current evidence base in relation to the 'value' case, the 'business' case and the ethical dimension (consolidation of existing evidence and funding of new targeted research)
- facilitate informed dialogue and exchange between the Member States and other relevant stakeholder groups
- make a dedicated effort to reach and engage the key market 'intermediaries' (especially social / health / housing service providers and professionals, funding / reimbursement organisations)

What is Integrated Telehealthcare ?

Telehealthcare delivery model



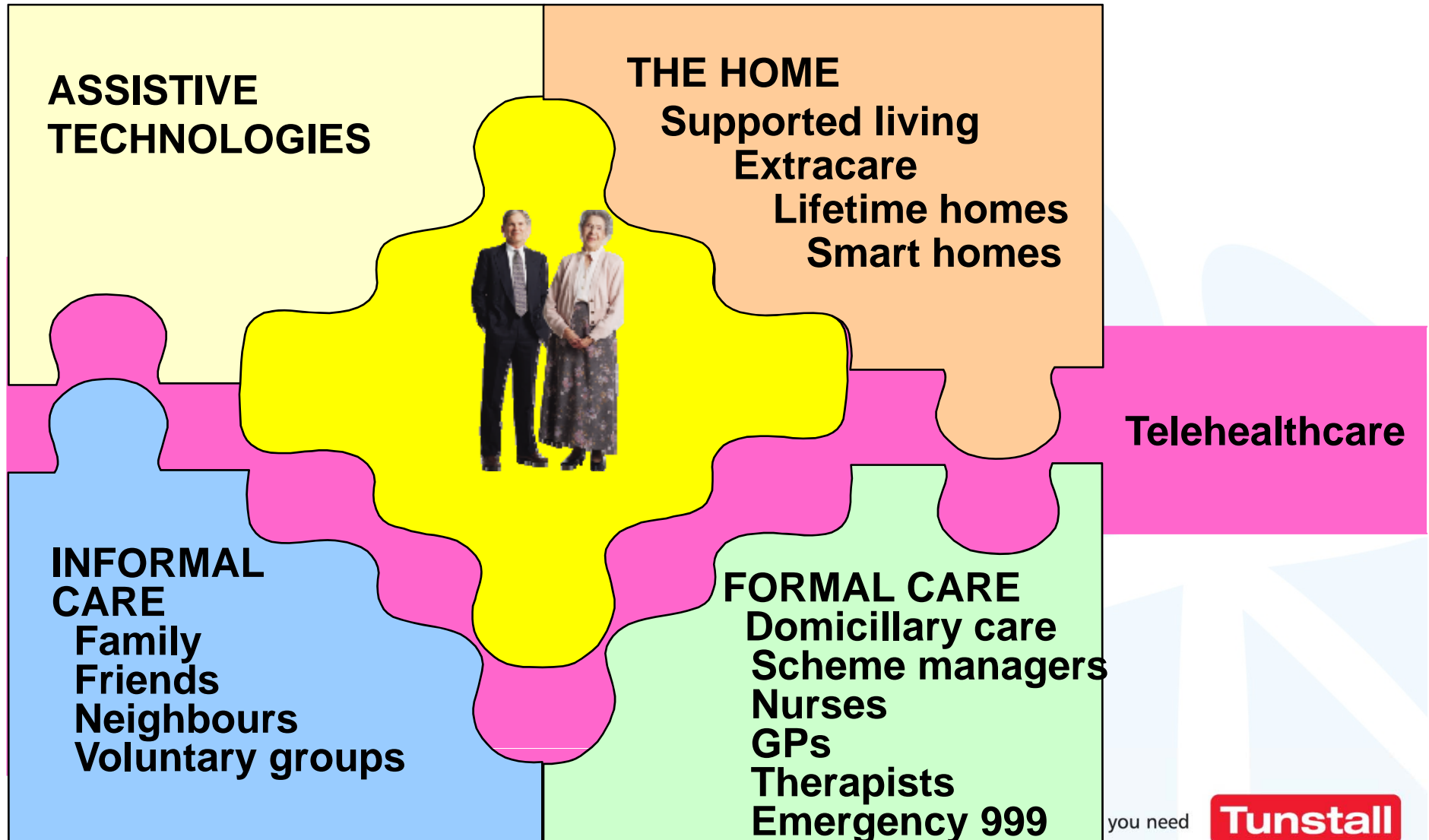
Social care

health care

housing

education

Telehealthcare: The 'glue' that connects People, places and information

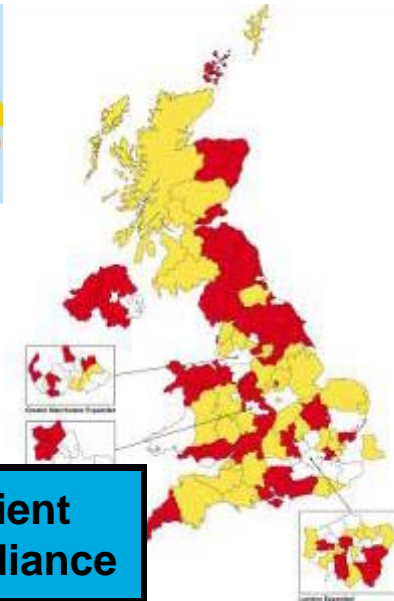


North Yorkshire's mainstreamed telecare approach



- 50% more people over 65 by 2020, 54% more people with dementia
- Current model of social care provision would need:
 - 3,420 more domiciliary care packages
 - 1,817 additional places in care homes
 - At a **cost increase of £43m per annum in real terms by 2020**
- Telecare made available for **all** individuals needing Adult and Community Services support
 - part of the range of mainstream solutions
 - personalised to suit their individual circumstances
- Sept 2008 analysis of 132 new users of telecare:
 - **38% reduction** per person in care costs.
 - **saved over £1 million in year 1** that would otherwise have been spent on domiciliary or residential care

UK telehealth experience: 10-75% reductions in hospital admissions



Care agency	Condition	Hospital admissions	A&E visits	Bed days of care	Patient compliance
NHS Blackpool	Heart Failure and COPD	75% reduction	-	-	100%
NHS Leeds	COPD	10% reduction	8% reduction	16% reduction	98%
NHS Sheffield	COPD	50% reduction	-	-	97%
Orchard Medical Centre	Heart Failure	46% reduction	67% reduction	-	94%
Hull and East Riding	Heart Failure	50% reduction	-	70% reduction	-

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International telehealth implementations: 20-75% reductions in hospital admissions



Condition	Patients monitored	Hospitalisation rate	A&E visit rate	ADL improvement	iADL improvement
Heart Failure	6,654	39% reduction	49% reduction	7% improvement	19% improvement
COPD	707	51% reduction	66% reduction	12% improvement	27% improvement
Diabetes	3,513	75% reduction	83% reduction	10% improvement	19% improvement
Coronary Artery Disease	3,390	29% reduction	34% reduction	8% improvement	16% improvement

Source: Strategic Healthcare Programs (2004) Independent Analysis of Monitored/Non-Monitored Patients

Condition	Patients monitored	Hospital admissions	Bed days of care	Satisfaction
Heart Failure	4,089	26% reduction	25% reduction overall	86% satisfied overall
COPD	1,963	21% reduction		
Diabetes	8,954	20% reduction		
Hypertension	7,447	30% reduction		
Depression	337	56% reduction		
Mental Health	653	41% reduction		

Source: Darkins et al. (2008) Care Coordination/Home Telehealth: The Systematic Implementation of Health Informatics, Home Telehealth, and Disease Management to Support the Care of Veteran Patients with Chronic Conditions. *Telemedicine and e-Health* 14, 1118-1126

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CommonWell – EU project integrates health and social care



European Commission funded project
ICT-enabled health and social care services
12 partners from 5 European countries
400 users across Europe
Tunstall Healthcare leading the technical work

“This is an important project for the EU because it addresses the challenging issue of interworking between social services and health care. We support projects like CommonWell to get the results of innovative new technologies and services to consumers faster, to help improve the quality of life.”

Paul Timmers, head of the European Commission's 'ICT for Inclusion' Unit

POZOB/Shoko/Smart Homes : Telehealthcare in Primary care setting

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Whole system suppliers : integrates health and social care



A few other pioneers that will set the scene :

Luxembourg - Foundation Hellef/ DoheemSecher Doheem :
Telecare (from 1^e, 2^e and 3^e generation incl Social Alarm center) to
Telehealthcare : nation wide

Belgium - Nurse home care organisation Wit-Gele Kruis Limburg :
Telecare (from 1^e, 2^e and 3^e generation incl Social Alarm center) to
Telehealthcare : regional/Flanders

Denmark – Aalborg University and hospitals : Integrated COPD
care between hospital and GP's: Regional

Netherlands – Brainport Health innovation : Integrated care in the
community through Living labs : Regional

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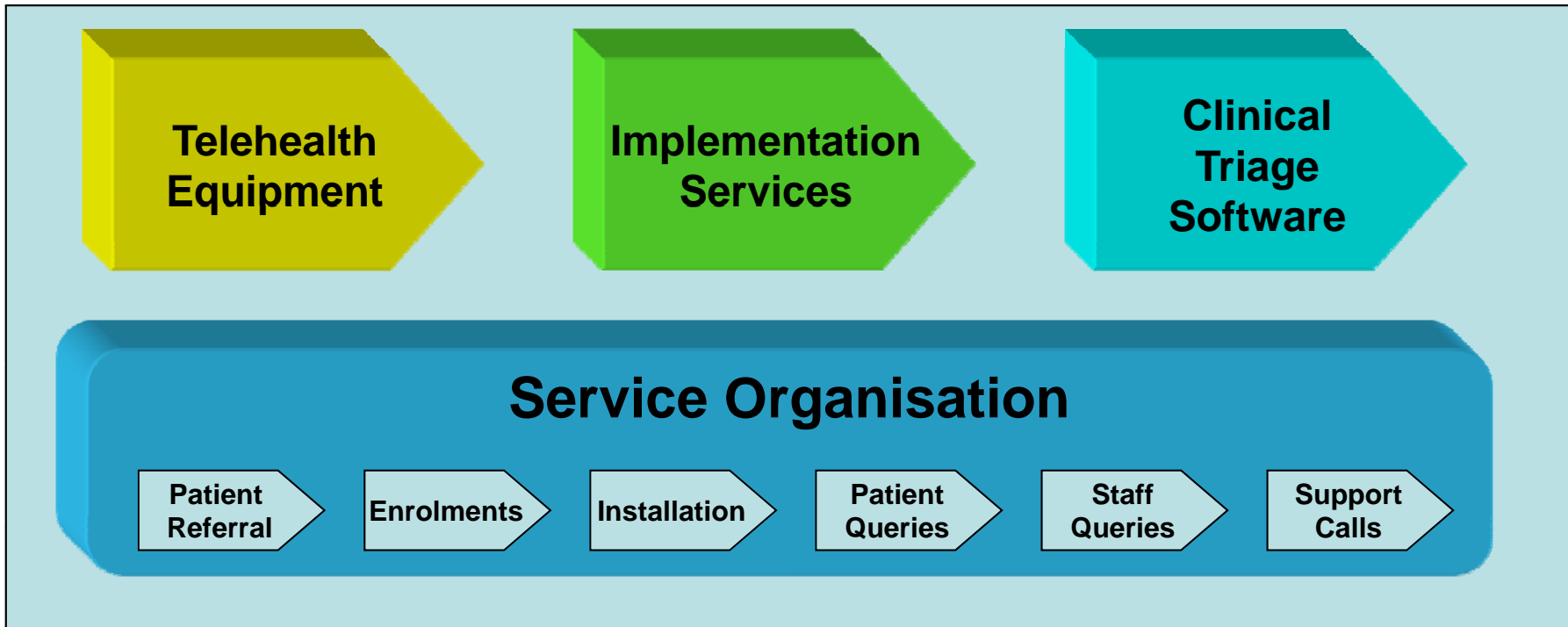
Mainstream Telehealthcare Services



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Technology as a positive, disruptive force;
Care Service & Pathway re-design is essential.



Service Redesign

Pathway Redesign

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