Citizens and Systems - are they Compatible?

Professor Michael Rigby

Emeritus Professor of Health Information Strategy, Keele University, UK

Professor, Nordic School of Public Health

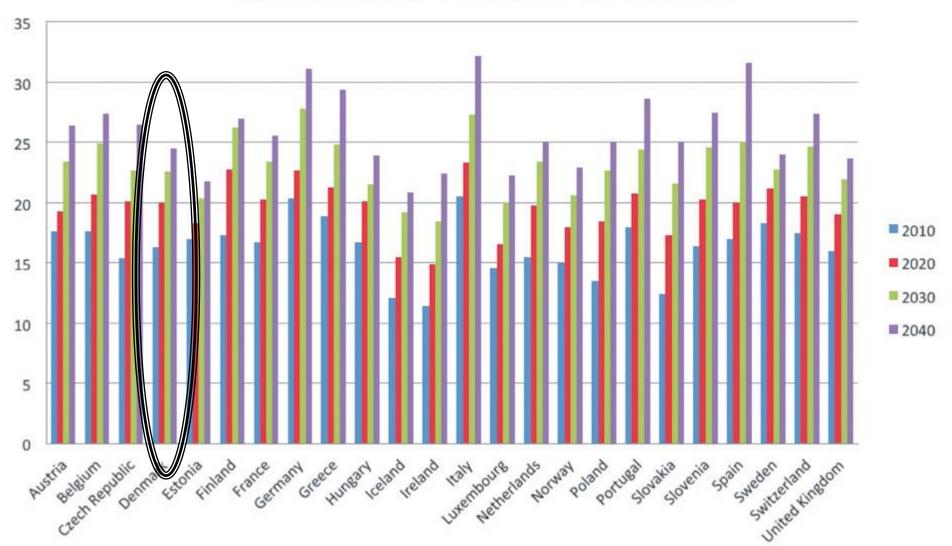
Consultant to the European Science Foundation and OECD

Care Delivery has to Change

- Demographic pressures
- Consumer expectations
- New treatment and monitoring lines
- Economic (double) pressures
- New Informatics Opportunities

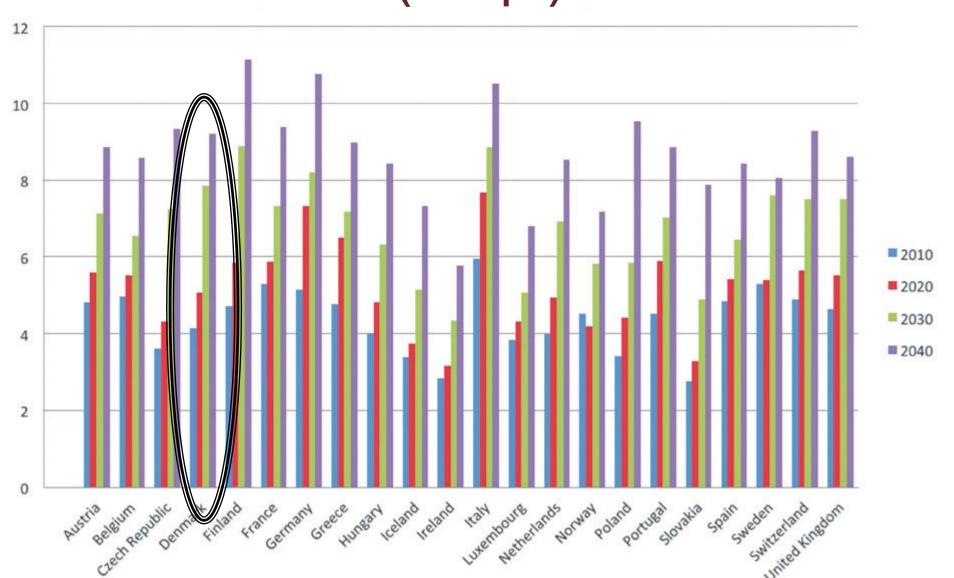
Projected Population % over 65

(Europe)

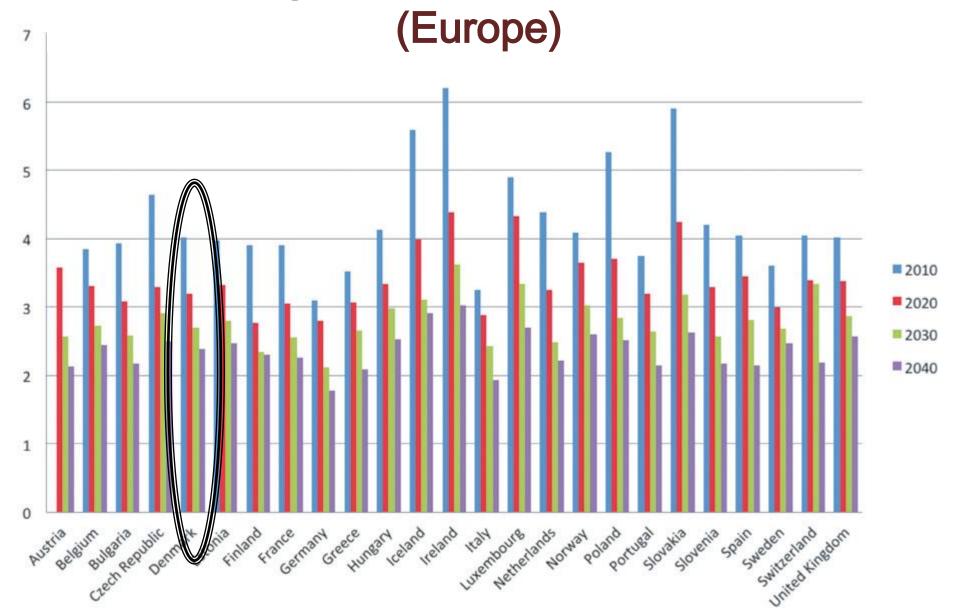


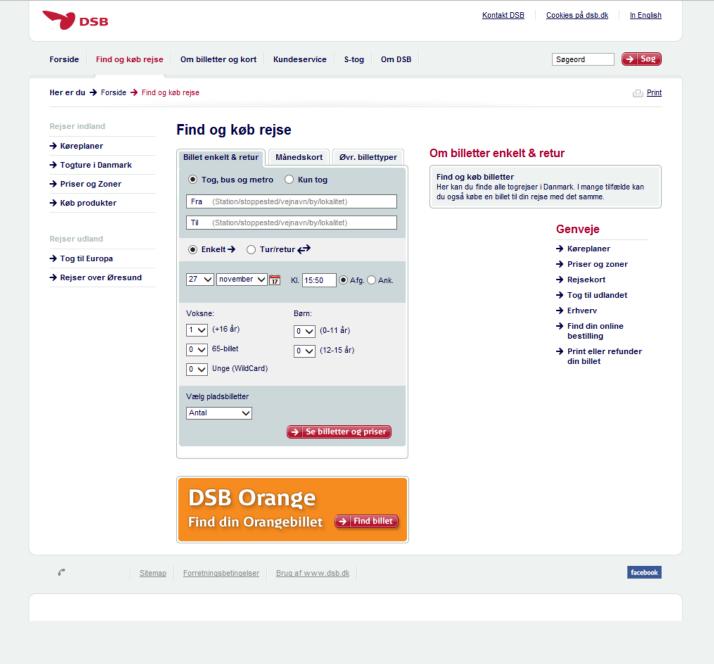
Projected Population % over 80

(Europe)



Working Adult: over 65 Ratio







Københavns lufthavn, Kastrup, Terminal 2 - Nyborg st

Søndag d. 1. december Priserne gælder for alle rejsend								
↑ Tidligere afgange Sammenlign billettype								
KI.	Tid	Skift	Transportform	Orange	Standard	DSB 1' Non flex	DSB 1'	Minigruppe
Afg. 21:02 Ank. 22:46	01:44	1	Ør-tog IC-tog Se reiseplan	Udsolgt	<u>234,-</u>	Udsolgt	O 374,-	-
Afg. 21:39 Ank. 23:17	01:38	0	IC-tog <u>Se reiseplan</u>	Udsolgt	② 234,-	Udsolgt	O 374,-	-
Afg. 22:02 Ank. 23:52	01:50	1	Ør-tog IC-tog <u>Se reiseplan</u>	Udsolgt	O 234,-	Udsolgt	O 374,-	-

Din pris

Søndag d. 1. december

21:39

Københavns Lufthavn, Kastrup st
23:17 Nyborg st

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Pris i alt:
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Kundeservice Tlf: § 70 13 14 15 tast 7-1 Alle dage kl. 7-22

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Vær opmærksom på, at ikke alle vores billettyper sælges her på dsb.dk. <u>Se oversigt</u>.

→ Fortsæt

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BOOK NU. SPØRG SENERE. Log ind | Ny bruger Kontakt 24 timers fortrydelsesret på sas.dk Hjælp

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Vis / ændre booking

Tr flyet til tiden?

Tidstabel

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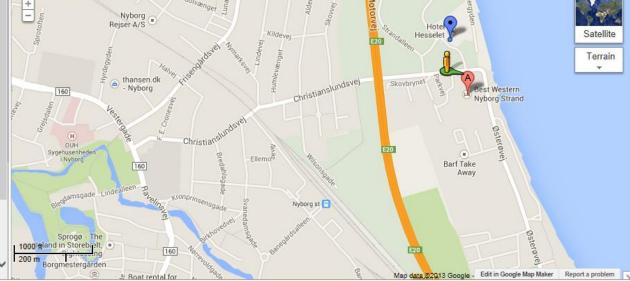
Luksus Konference på Fyn Stilfulde og eksklusive omgivelser. Perfekt ramme for forretningsmøder. www.hotel-hesselet.dk/Konference Christianslundsvej 119, Nyborg

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Søgeværktøjer

Ca. 80.000.000 resultater (0,14 sekunder)

Annoncer, der relaterer til diabetes (i)

Bliv fri for diabetes 2 - Et koncept uden diabetes medicin

www.quitdiabetes.dk/ ▼ 20 62 06 88

Se brugernes resultater

diabetes.dk - Har du diabetes?

www.diabetes.dk/ ▼ 66 12 90 06

Bliv medlem af Diabetesforeningen for 50 kr. og få en gratis kogebog

Læs om diabetes type 1 og 2 (sukkersyge) - Diabetesforeningen ...

www.diabetes.dk/ -

Har du diabetes? Så er der hjælp at hente i Diabetesforeningen, som hvert år hjælper 80.000 medlemmer. Du får en gratis kogebog når du melder dig ind.

Diabetesforeningen - Diabetes 2 - Velværekøkkenet - Mad og fysisk aktivitet

Diabetesforeningen - Diabetes

www.diabetes.dk/diabetesforeningen.aspx -

Diabetesforeningen er en interesseorganisation, der siden 1940 har støttet ...

Generelt om sukkersyge (Diabetes) - NetDoktor.dk

www.netdoktor.dk/sygdomme/fakta/diabetes.htm -

02/11/2009 - Diabetes (sukkersyge) er en sygdom, hvor blodets indhold af sukker (glukose) er øget ud over det normale. Der findes to væsentlige former for ...

Type 2 diabetes - Type 1 diabetes - Risiko for diabetes

Diabetes - NetDoktor.dk

www.netdoktor.dk/tema/sukkersyge.shtml -

Diabetes (sukkersyge) rammer hvert år tusindvis af danskere. I denne sektion finder du praktiske råd og information om, hvordan man kan leve et sundt og aktivt ...

Sundhedsguiden.dk - Diabetes er en folkesygdom | type, 1, 2 ...

www.sundhedsguiden.dk > Temaer > Alle temaer ▼

Diabetes inddeles i type 1 og type 2, der begge har stort set de samme symptomer. Sygdommen bevirker, at sukkeret i blodet hverken optages i kroppens celler ...

Steno Diabetes Center - Steno

www.steno.dk/ -

20/06/2013 - Nyheder fra Steno Diabetes Center - Danmarks eneste diabeteshospital.

Sukkersyge - Wikipedia, den frie encyklopædi

da.wikipedia.org/wiki/Sukkersyge -

Sukkersyge, med den medicinske betegnelse diabetes mellitus, er en gruppe sygdomme, hvor blodets indhold af sukker (glukose) er øget ud over det normale.

Annoncer (i)

Køb Diabetes - 273 kr

www.youread.dk/diabetes -Køb bogen her. Du sparer % Gratis levering. Bestil i dag!

Lider du af urolige ben?

www.cirkulationstraeneren.dk/ -45 76 54 25 Få ro i benene og et bedre kredsløb med cirkulationstræneren. TILBUD

Symptoms Of **Diabetes**

www.ask.com/Symptoms+Of+Diabetes -Search for Symptoms Of Diabetes. Find Answers on Ask.com.

Tilmeld dig JDRF

www.jdrf.dk/ ▼

Forskning i bedre behandling og helbredelse af Type 1 diabetes

Se din annonce her »

Mary, a Typical Older Citizen

Aged 79 years Lives alone (family home) Arthritis (legs and hands) Long-standing digestive problem Mitral valve leakage Small mental lapses - ? TIAs Technophobe (ATM, care alarm) Sociable but Independent



Mary's Health Support

General Practitioner – uninterested, repeat meds., nothing curable Cardiologist – medication Orthopod – undecided Neurologist – unsure Geriatrician – peace maker Home nurse – monthly Respite care – annually



No coordination

Mary's Holistic Needs for Health

Nutrition support

Mobility support

Shopping

Bathing support

Socialisation opportunity

Without all of these, her health will suffer

But not tasks of health services



Who Manages her Health?

Health seriously compromised if not helped holistically

Health Care and Social Care need harmonising

Family carers' own situations and needs are factors

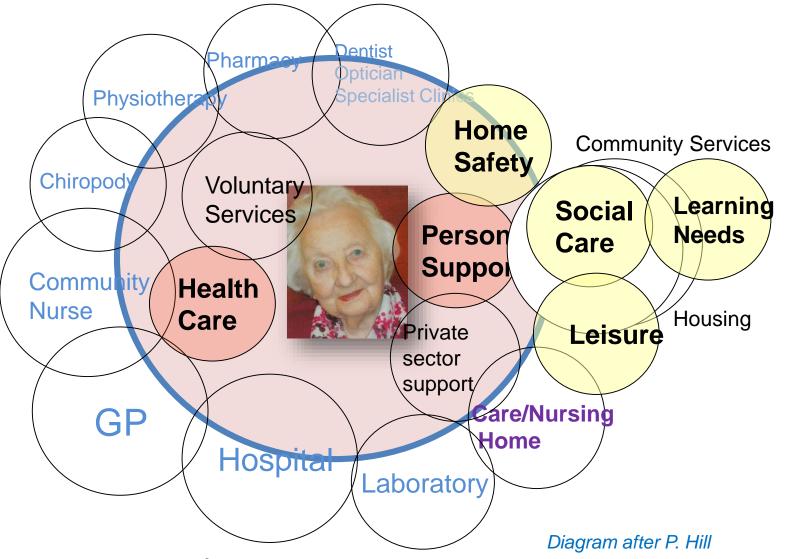
Fit for 'independent living' Potential major risks

Disease monitoring not relevant

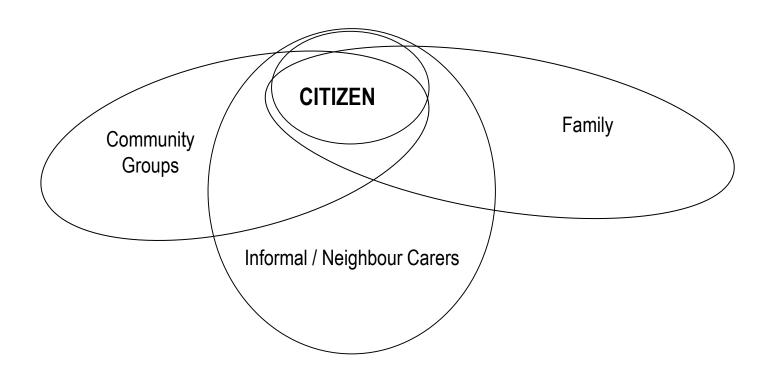
Test of modern society:



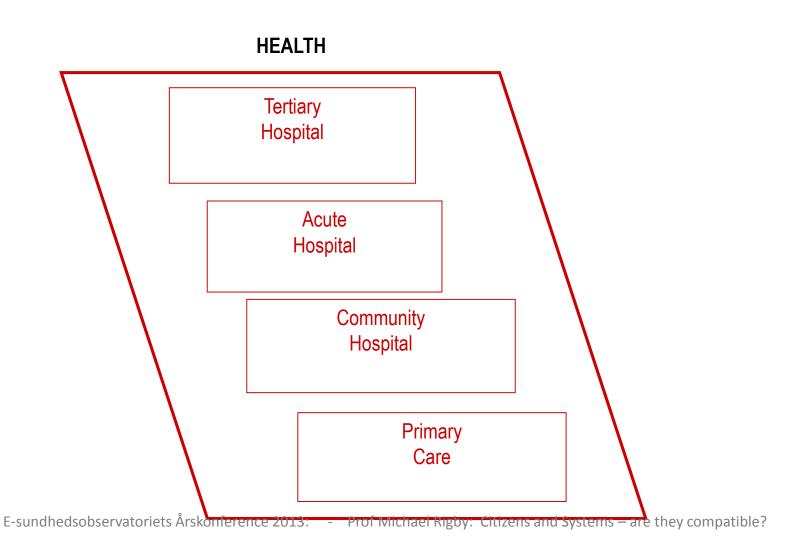
Proliferation causes Problems



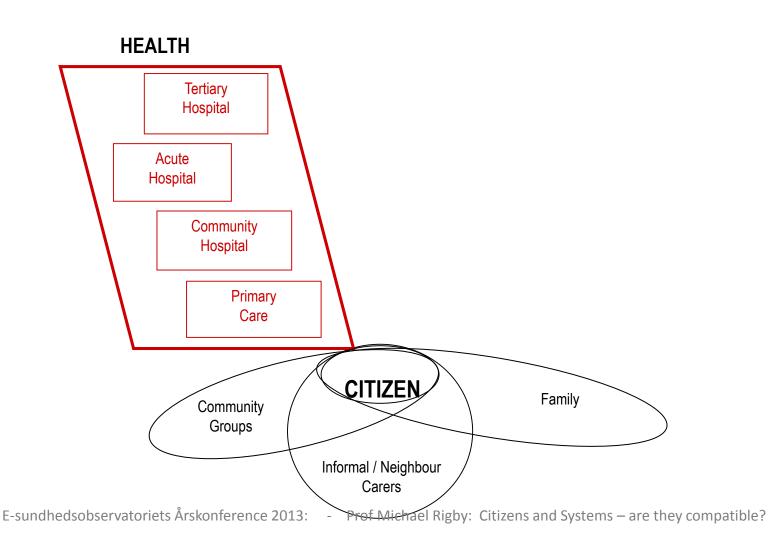
Needy Citizen's World



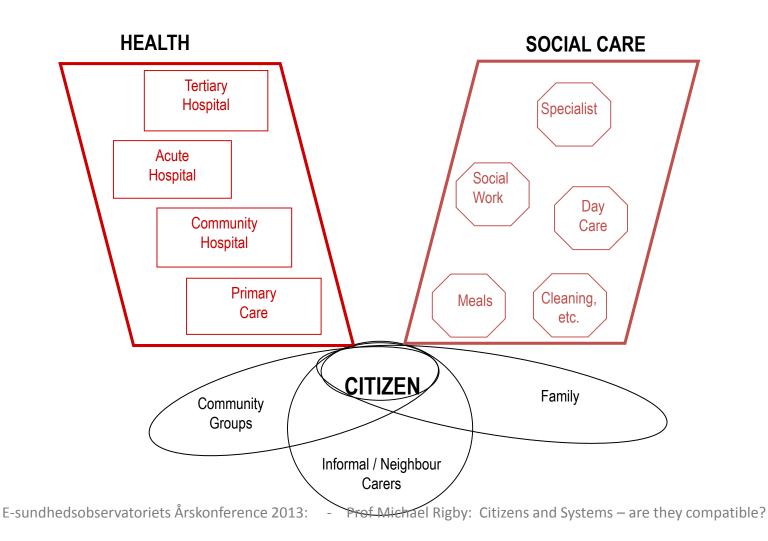
Traditional View of Health Sector



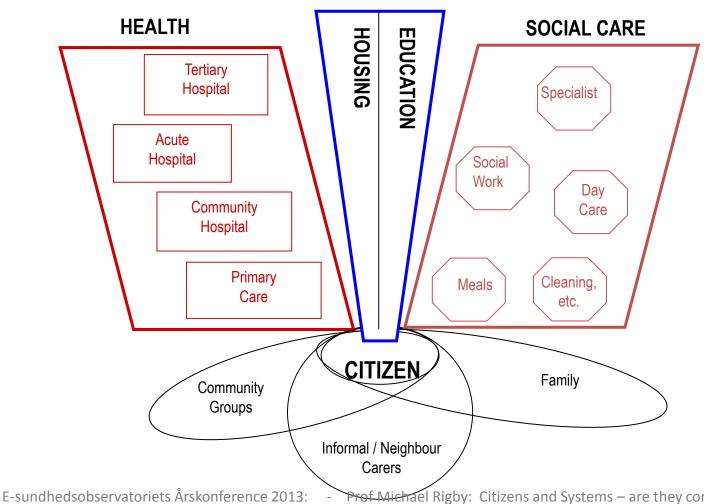
Make a Poor Match



Social Care just as Important



Often other Services Too



Prof Michael Rigby: Citizens and Systems – are they compatible?

Citizens and Systems

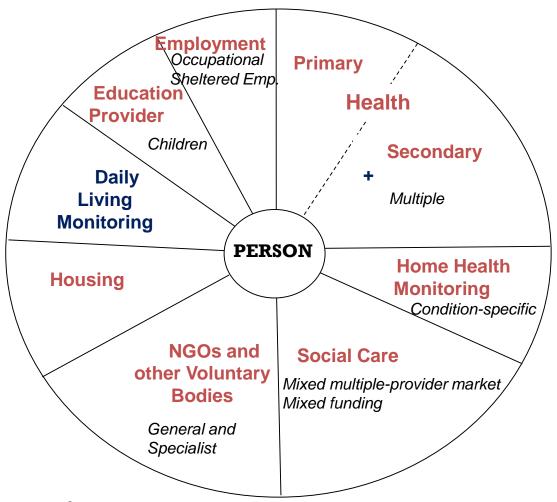
- The Citizen wants:
 - One picture of her/his health
 - Coordinated action
 - Her/his choice of access and of care
 - Easy interface to all services

- Personalised reliable quality delivery
- A complex system with a soft interface

Providers and Systems

- Providers want:
 - Business-like systems
 - Efficient use of resources
 - Matching of supply and demand
 - Optimal uniformity at component level
 - Training, Audit, Quality Assurance, Costing/reimbursement
- Systems interface uniformly with persons
- A complex system which enables personal care

Providers and Users of Individuals' Health Data within Systems



Mixed Characteristics of Health Support Services' Data

Data Source / Type	Data Characteristics
Health	Highly confidential; Single data subject; Mixed types
Home Health Monitoring	Vital signs or similar; Usually issue specific. High volumes; Needs critical threshold rapid analysis
Social Care	Shallower and simple; Largely text and terms Multiple data subjects; Multiple providers to an individual
NGOs and other Voluntary Bodies	Need records for delivering services; Increasingly important Autonomous
Housing	Provide shelter or support functions Warden needs to know limitations, risks, referral signs
Daily Living Monitoring	Data driven; Mixed data, different meanings and sensitivities Near-real time interpretation important; Algorithm or human monitor
Education	Primarily for children Case management, limitations, risks, action needed
Employment E-sundhedsobservatoriets Årskonfe	Need to know to know limitations, risks, referral signs rendependent of the health is ector tizens and Systems – are they compatible?

The System-led Design Risk

- We design for People Like Us
- not for ill, bewildered, older and ill citizens
- We assume everyone knows the system
- User expected to learn to navigate -
- WHY? they are ill and we are paid to look after them.



Forside Find og køb rejse Om billetter og kort Kundeservice S-tog Om DSB Søgeord



Genveje

- → Priser og zoner
- → Tog til Europa
- → Rejseplanen
- → Rejsetidsgaranti
- → Erhverv
- → Trafikinformation
- → DSB på mobilen

Orange billetter

Her finder du billige billetter

→ Læs mere



→ Søg





Sådan kører togene



DSB her og nu

27-11-2013 06:00

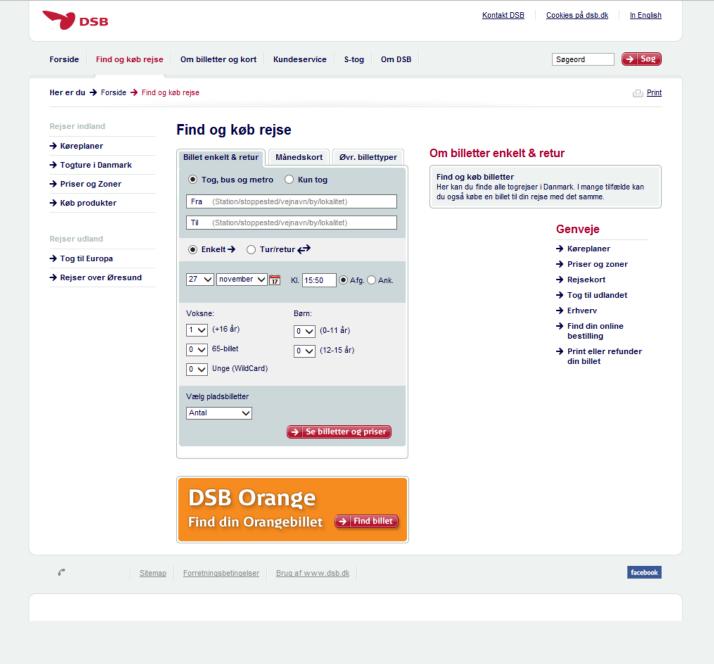
27-11-2013 10:34 Ændret køreplan for InterCity- og InterCityLyn-togene i weekenden 21-11-2013 12:48 Resultat før skat på 304 mio. kr. i årets første 9 måneder

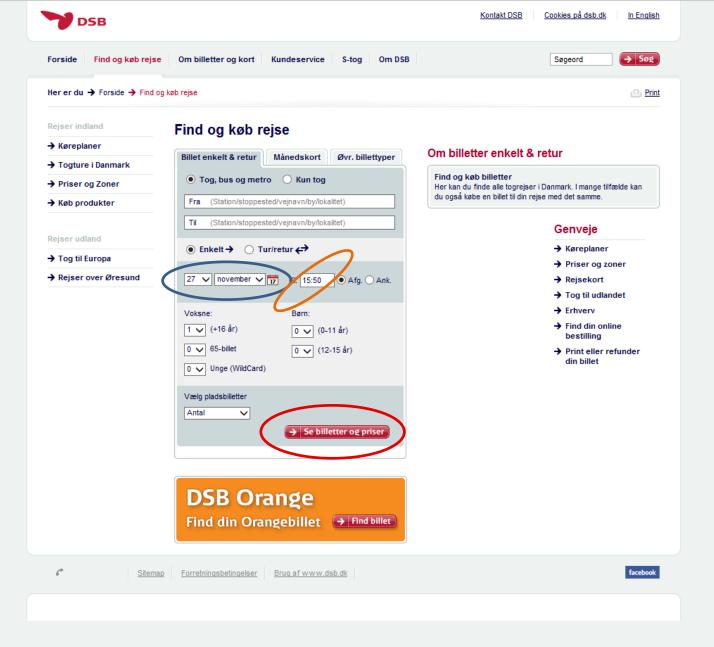
→ Se flere meddelelser

→ Rejsekort
→ Cykler

→ Arsrapport

→ Ny Nørreport





Four Dimensions of Care

- 1. The Client/Patient's Needs
- 2. Informal Carers' Needs
- 3. Formal Care Providers
- 4. Society

The Citizen Need

- Key information shared
- Harmony of care objectives and methods
- Appointments coordinated; also with informal carers' input
- Preferences respected
- One general contact point ('care manager')



Standing Committee for the Social Sciences (SCSS)

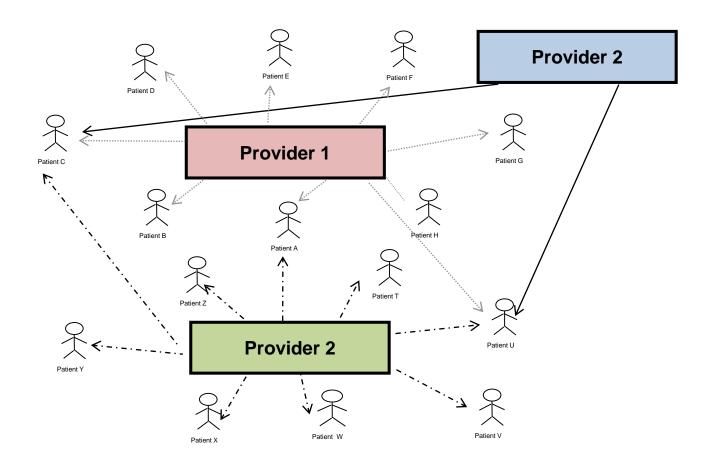
Developing a New Understanding of Enabling Health and Wellbeing in Europe

Harmonising Health and Social Care Delivery and Informatics Support to Ensure Holistic Care

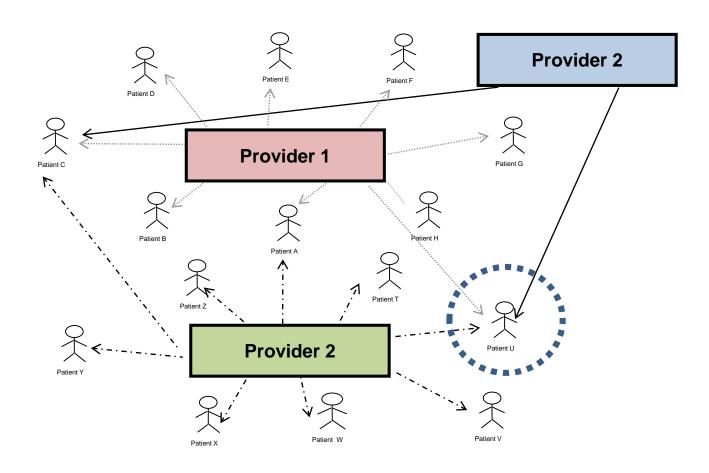
Science Position Paper



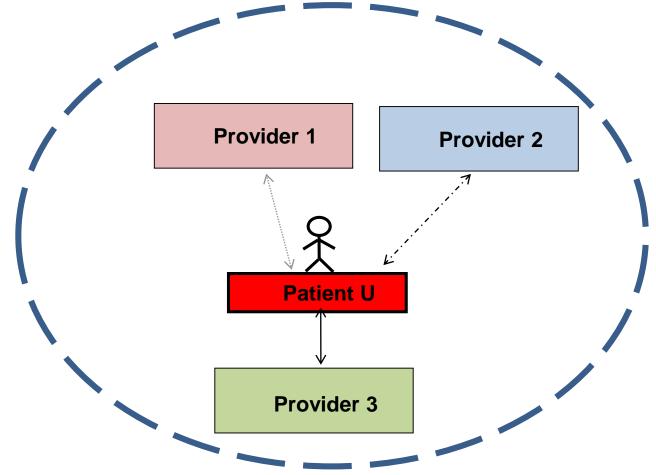
From Organisation-based View



From Organisation-based View



To Holistic Client-Centric View



Electronically brokered and re-presented

Challenges to Health and Social Care Informatic Coordination

- 1. Usually different legal and funding entities
- 2. Health records deep and narrow; Care records wider (third parties), less depth
- 3. Different attitudes to sharing record
- 4. Need new paradigms of delivery coordination

Coordination Challenges

- Who coordinates care objectives for the individual citizen?
- Who coordinates the related records?
- Who coordinates Informatics policies and systems?
- Who runs cross-agency packages of care?
- Linkage with Monitoring, Pervasive and Ubiquitous Systems

Governance and Societal Issues

- Trusted advocacy for citizens not able to manage their affairs or electronic systems.
- Ensuring those not digitally enabled or empowered are not disadvantaged.
- Third party issues and rights
- Governance models and rules.
- Education, awareness, and training programmes.

What should Interoperability Bring?

Citizen at Centre

- Link health agencies and actors
- Integrate all services round 'Care'
- Common care aims and care plans
- Diaries and Schedules
- Cross agency communication
- Common terms and meaning
- Empower the Citizen

OECD Policy Development



OECD-(US)NSF WORKSHOP:

BUILDING A SMARTER HEALTH

AND WELLNESS FUTURE

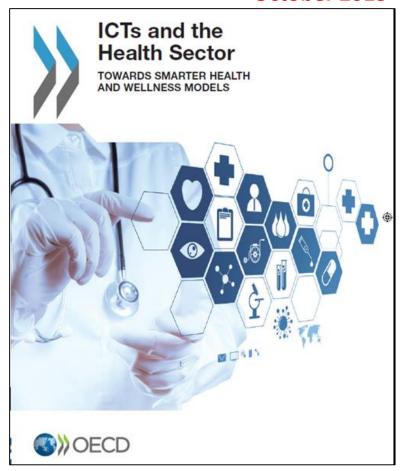
15-16 FEBRUARY 2011

SUMMARY OF KEY MESSAGES

www.oecd.org/sti/smarterhealth

Also Special Issue of IJMI 2013

October 2013

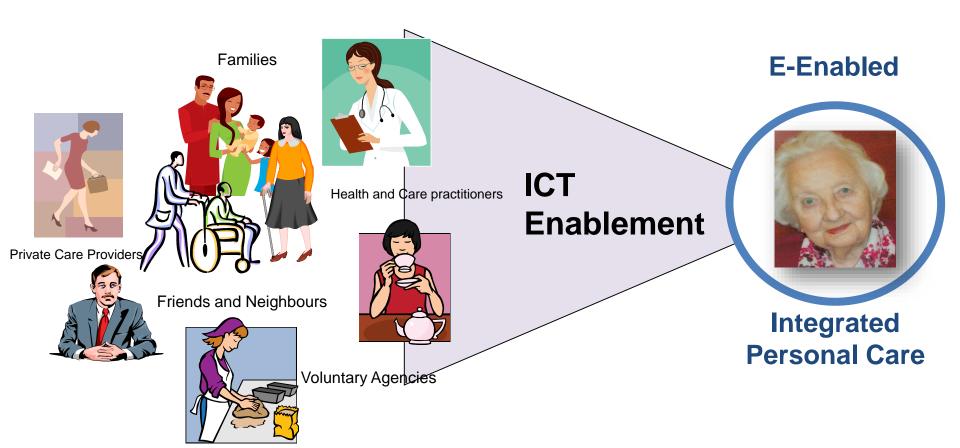


OECD Smarter Health

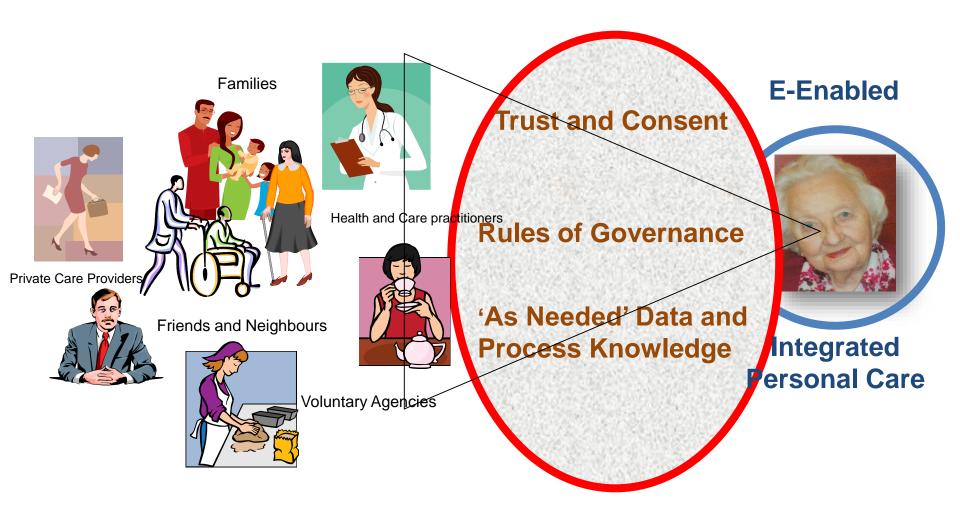
Smartness Needed for Quality and Efficiency

- Smart is:
 - Bringing service nearer to home
 - Citizen co-leadership
 - Harnessing societal support
 - ICT as a key enabler
 - Monitoring
 - communication

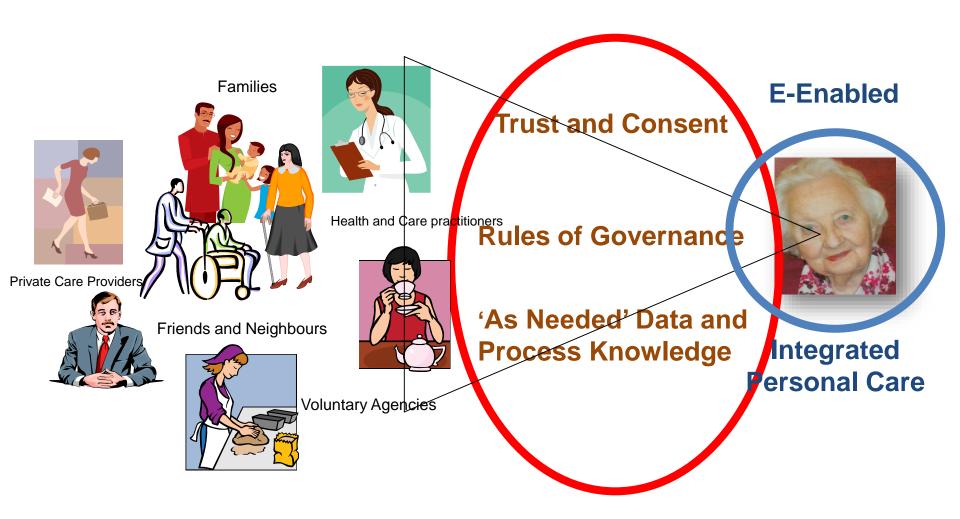
New Paradigm of Personalised Service

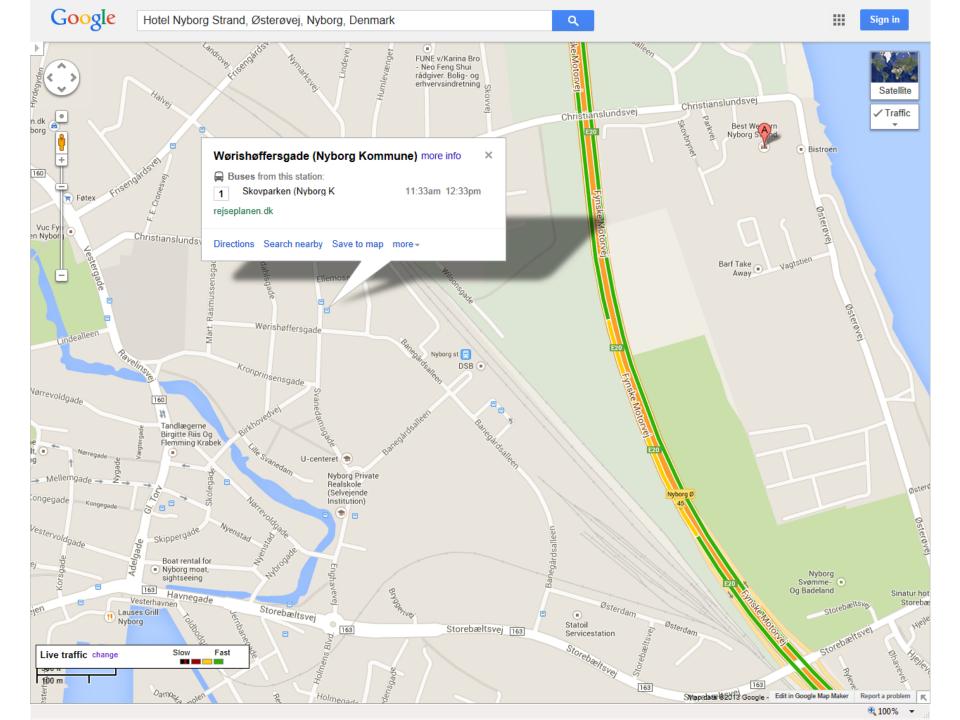


with Social Science Being Key



Compassionate Systems link Citizens





Conclusion

Citizens and Systems are Inter-dependent

Person-centeredness in design is key

Social Sciences are vital