mHealth2013- UNSW Australia 5th July 2013

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Research Programs (2010-12)

1. Projects on e-Research infrastructure (Cooperative Management based on OBMAS)
   - UNSW e-Research Infrastructure (incl CaBIG)
   - Data Quality for Chronic Illness Management (ePBRN)

2. eHealth Projects on primary care and aged care from a service-oriented perspective.
   - Aged Care Industry IT Council Project ($380,000) incl contributions from AIPAR, Oracle and Smart Services CRC
   - Games for Aged Care (Driving, Rehabilitation)

3. International projects on the assessment of mHealth for various applications (e.g., tele-consultations, HIV/TB treatment, mental health, smoking cessation, pandemic/disaster management)
   - Global mHealth Assessment Initiative ($1.6 million) with contributions from AII, SPHCM, St. Vincent’s Hospital, SSWAHS, NST (Norway), HIV-NAT (Thailand), CMC (Ind), TRCL (B’Desh), Univ of Geneva (Swisse), HSAGlobal(NZ)
Figure 2  Speed of Population Aging Across Countries

<table>
<thead>
<tr>
<th>Country</th>
<th>Years</th>
<th>Age 65+ Rise</th>
</tr>
</thead>
<tbody>
<tr>
<td>France</td>
<td>115</td>
<td>1964-1979: 7% to 14%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1979-2018: 14% to 20%</td>
</tr>
<tr>
<td>Sweden</td>
<td>85</td>
<td>1967-1972: 7% to 14%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1972-2014: 14% to 20%</td>
</tr>
<tr>
<td>US</td>
<td>73</td>
<td>1942-2015: 7% to 14%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2015-2036: 14% to 20%</td>
</tr>
<tr>
<td>Canada</td>
<td>65</td>
<td>1944-2009: 7% to 14%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2009-2036: 14% to 20%</td>
</tr>
<tr>
<td>Japan</td>
<td>24</td>
<td>1970-1994: 7% to 14%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1994-2006: 14% to 20%</td>
</tr>
<tr>
<td>China</td>
<td>25</td>
<td>2001-2026: 7% to 14%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2026-2036: 14% to 20%</td>
</tr>
<tr>
<td>Korea</td>
<td>18</td>
<td>2000-2018: 7% to 14%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2018-2026: 14% to 20%</td>
</tr>
</tbody>
</table>

Source: U.S. Census Bureau (2011). International Database
Themes in ACIITC Scoping Report

- **THEME 1: COMMUNICATION AND INFORMATION EXCHANGE FOR CARE GIVERS**
  - WITH DOCTORS ON MEDICATIONS
  - WITH PHARMACIES ON MEDICATION EXPIRY DATES AND ORDERING
  - WITH OTHER CARERS ABOUT INDIVIDUAL PATIENTS

- **THEME 2: MEDICAL ERRORS**
  - DRUG-DRUG INTERACTIONS
  - LACK OF INFO ABOUT ALLERGIES

- **THEME 3: FALLS**
  - FALLS PREVENTION ALERTS TO CARERS

- **THEME 4: OLDER ADULTS AS CONSUMERS OF IT**
  - ASSISTIVE TECHNOLOGIES AND GAMES FOR REHAB
APuHC Program 3: Development and Assessment of mHealth

The objectives of this research program are:

- To develop models, methodologies and tools for the Assessment of eHealth/mHealth from the following four perspectives of healthcare services:
  - Quality Perceptions (USA, Bangladesh)
  - Access (Italy, Norway, Switzerland, Mali, Cameroon, India)
  - Cost (USA, France, Australia)
  - Acceptance by Healthcare Professionals (Canada, Mexico, Singapore)
APuHC in Global mHealth

• APuHC jointly led (with Tokai Univ-Japan) ITU-D/IEEE Mobile eHealth Initiative for Developing Countries, started in 2004 (consortium of twenty countries) for mHealth in
  – Emergency Telemedicine
  – Epidemic Control
  – Combating Bioterrorism

• APuHC led (2006-2009) the WHO Research on the Assessment of eHealth in four countries in Asia Pacific (India, China, Vietnam and Philippines) leading a comprehensive e-Health Readiness Assessment Methodology- now being used for Pandemic Preparedness

• APuHC now leading (since 2010) the global study on the assessment of mHealth in collaboration with twelve countries all over the world