HOW SHOULD WE DESIGN SYSTEMS THAT HAVE TO SURVIVE FOR THE NEXT 50 YEARS?

Technology is changing, however, the small system you build today may still be in use in 50 years from now.  OK, you are the Government of a country developing a new Social Welfare system[[2]](file:///G:\\SHE%20-%20Engineering%20&amp;%20Mathematical%20Sciences\\School%20Office\\ADMIN\\Website%20SEMS\\Honours%20Masters%20Thesis%20Topics%202016.docx" \l "_ftn2" \o ").  You want it to survive for the next 50 years. **What exactly does this mean?** How would you do this?

How serious is this problem? What would make it possible? What would make it difficult?

A good version of this will get published.

What we DO know…

FACT 1.  Very expensive systems survive for decades even if or especially when they are mission critical. (Find some important examples).

FACT 2. Technology is changing rapidly. How do we cope with this in the above context?

FACT 3.  We know a lot about component based design, software re-use and related issue. How do we bring all this together so that systems can deal with change?

**Web Browser technology**