

Faithful+Gould

Housing LIN Government & Industry Perspective

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Digital Solutions and their application in the evolving Extra Care market.

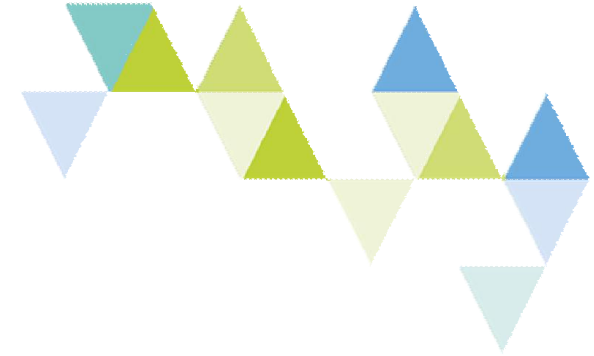
UK Government is supporting digital approaches to address the issues of a changing world. The UK faces continuing pressures on public finances, changing demographics and homes for the ageing, new political objectives and challenges to UK GDP.

UK Government and Local Authorities are increasingly embracing technology to deliver assets and drive better outcomes across social and recreational services. Smart and Sustainable cities are an example where local authorities, service and utility providers have started to work together to develop solutions on a larger scale. Our session will outline the objectives of the UK Digital Built Britain Programme and the benefits such approaches can deliver in asset delivery, operations and delivery of front line services in the extra care market.



Workshop

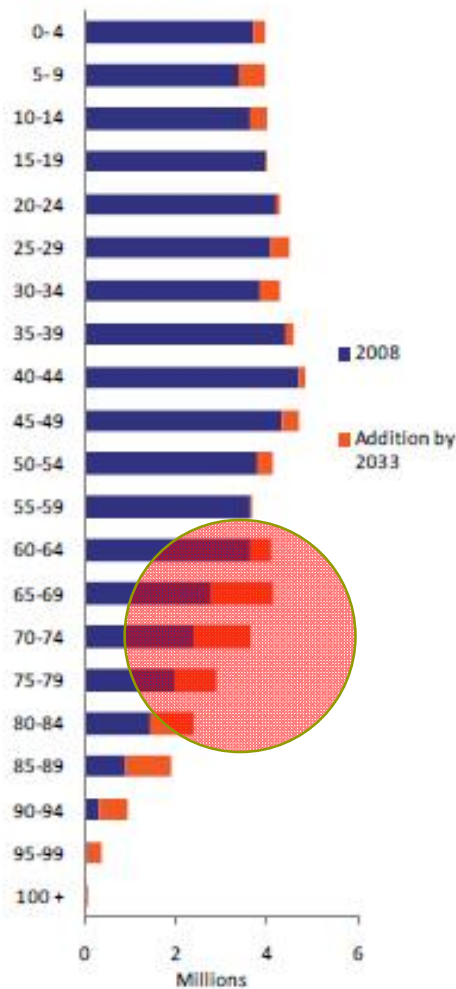
- Introduction
- Demographics and Physical Change
- Impacts of Change
- Rise of Technology
- UK Govt Digital Initiatives
- SMART Cities
- Group Workshop
- Feedback
- Close



Changing Demographics



The projected increase in the UK population 2008-2033 is concentrated in older groups
By five-year age bands



Government Actuary's Department

- 10 million people (2008) in the UK are over 65 years old. Latest projections are for 5½ million more in 20 years
19 million by 2050.
- Currently three million people aged over 80 years this is projected to almost double by 2030 and reach eight million by 2050.

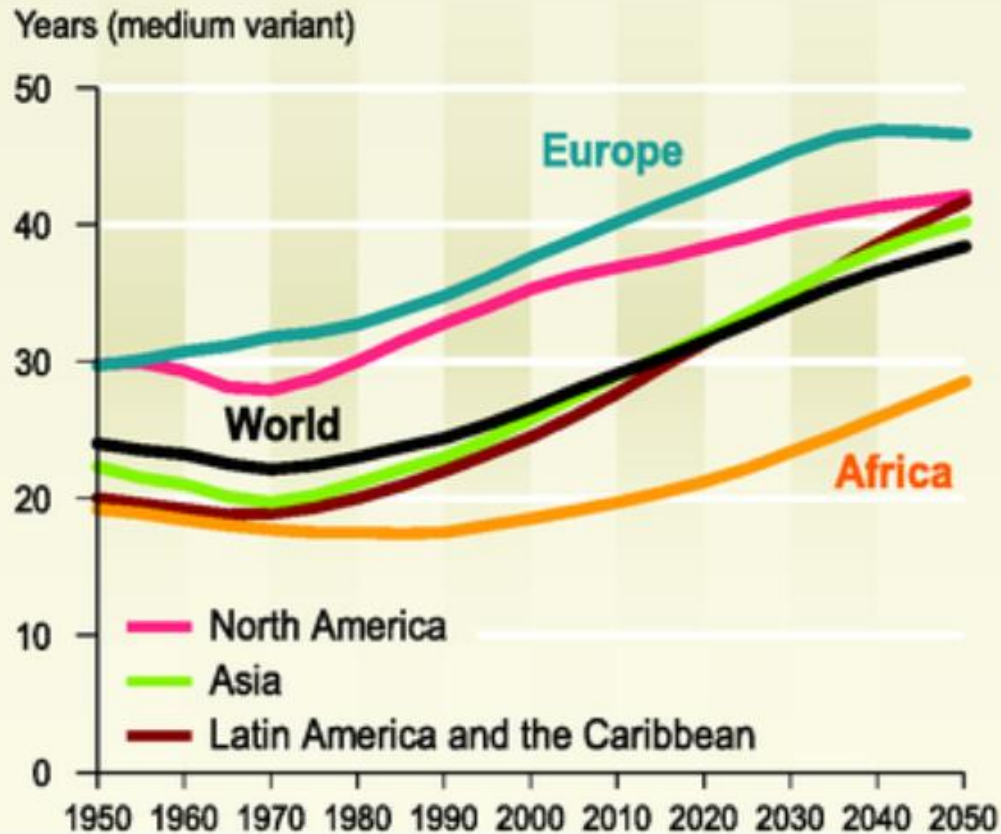
2011 UK Census

The percentage of the population aged **65 and over** was the highest seen in any census at 16.4%, that is **one in six people in the population**

Changing World Demographics

Median age projections

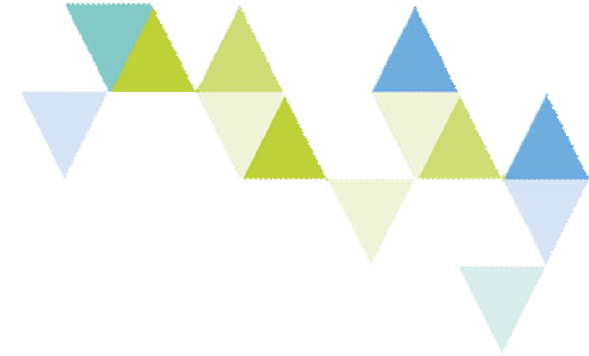
Median age is the age that divides a population into two numerically equal groups: half the people are younger and half are older.



PUBLIC SPENDING AND OLDER PEOPLE

Much of today's public spending on benefits is focussed on elderly people. 65% of UK Department for Work and Pensions benefit expenditure goes to those over working age, equivalent to £100 billion in 2010/11 or one-seventh of public expenditure.

Wider Impacts



theguardian

Ageing population will have huge impact on social services, Lords told

Committee to report startling findings of wide-ranging investigation into over-65s and implications for British society



As a result of such stresses, the Nuffield Trust and the Institute for Fiscal Studies calculated that, even assuming "heroic" productivity improvements, the NHS would have a **£28bn-£34bn shortfall** – a significant proportion of its £110bn annual budget.



MailOnline

Bed-blocking by elderly patients rises

Last week, the Government said that 6,000 beds were tied up and this was taken to mean the yearly figure.

When are we old?

The Telegraph

HOME | NEWS

Science

Science

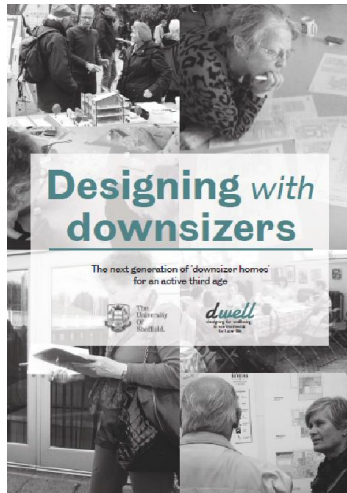
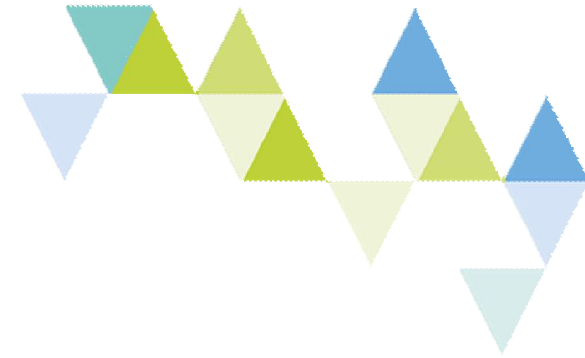
Old age does not begin until 74, researchers suggest in a new report which looks at the real impact of an ageing population



“For many people, 70 is the new 50 and signifies the quiet revolution that has taken place in longevity.

- *An average man who retired in 2012 can expect to live until the age of 86.2 years while a woman who turned 65 last year would have 23.9 years still to live on average, the ONS estimates.*
- *Additionally one in seven 65-year-old women and one in 12 newly retired men will live to celebrate their 100th birthday.*

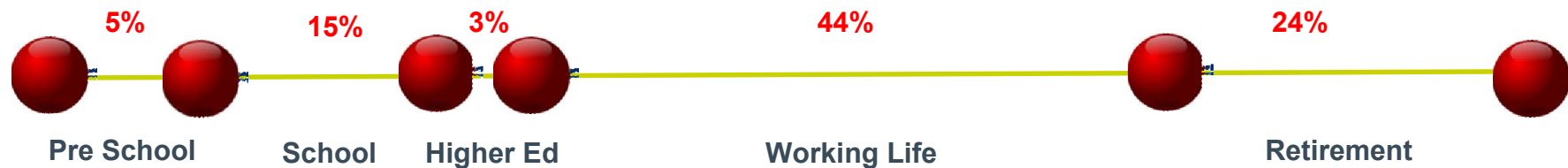
What Is The Impact Of Change?



"A home that continues to allow people to pursue the pleasures of life today, while feeling secure that their home can adapt to their future needs."

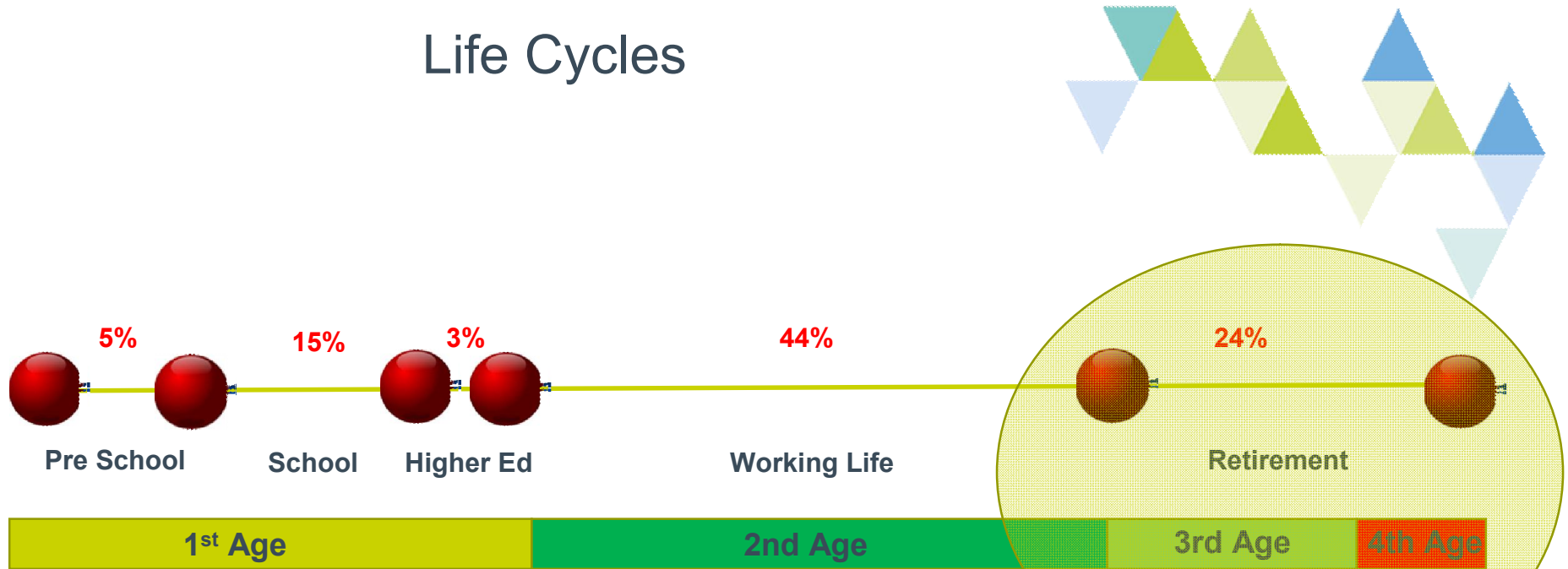
In other words: peace of mind and security in a well-designed home in a place and community that suits their taste and lifestyle.

Jeremy Porteus
Director, Housing LIN
October 2016



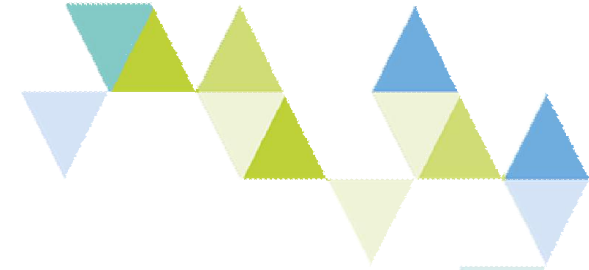
Lifeline

Life Cycles



Adaptable Living –
Adaptable
Technology

Technology Line



Technology
Development

Technology
Deployment

Technology
Advancement

75 today
Born 1942

65 today
Born 1952

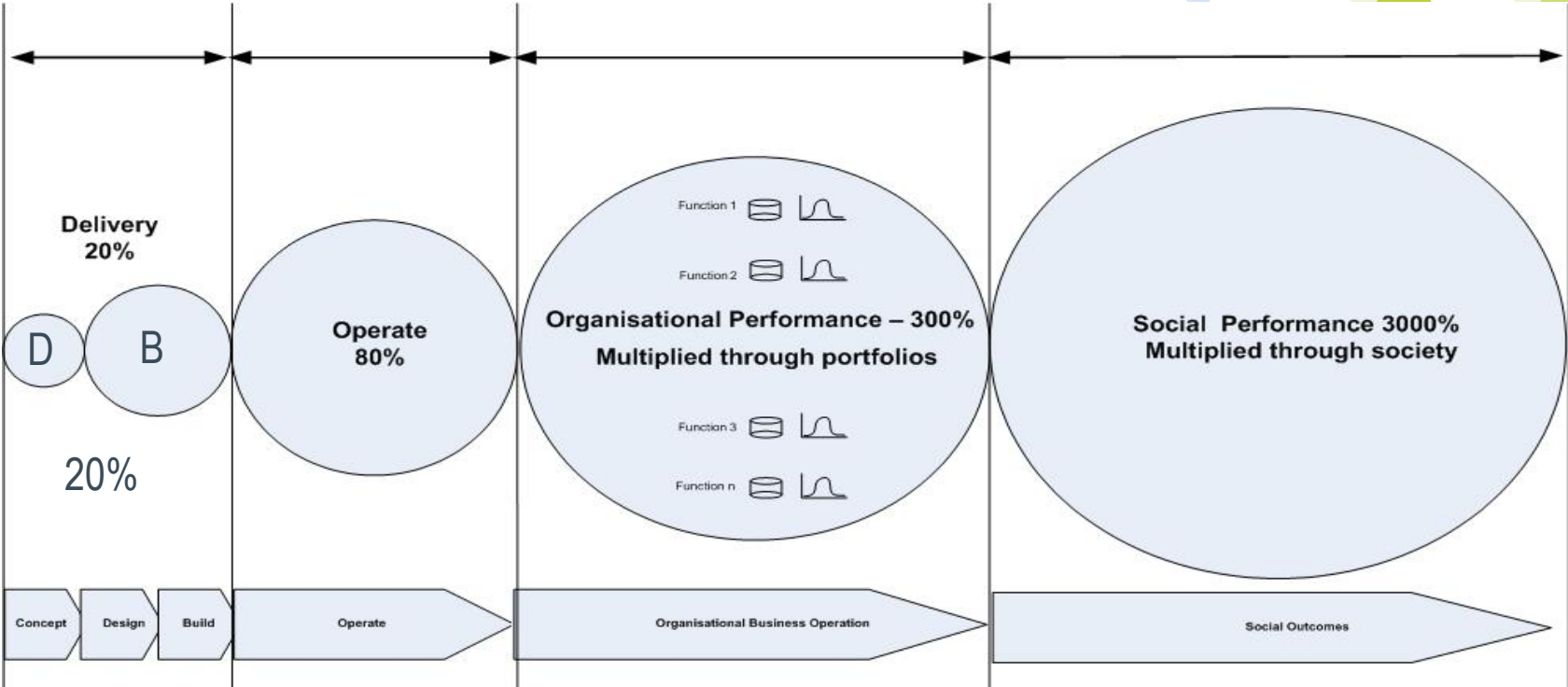
65 in 2025
Born 1960

65 in 2050
Born 1985

UK Government Intervention

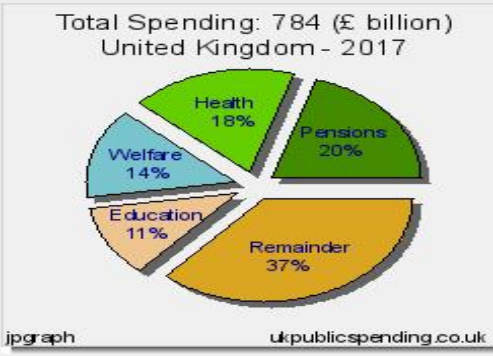


Digital Expectations

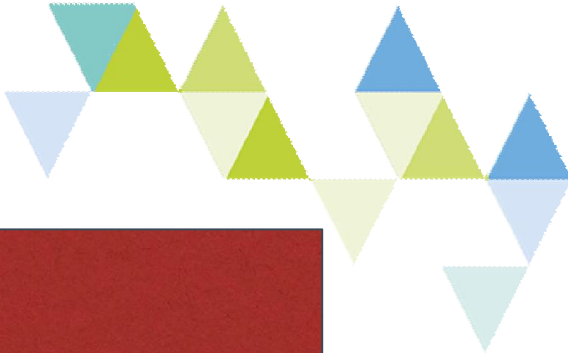


Spending / Pie Chart

Function	-yr 2017 +yr
Total Spending	£784.1 billion
Pensions	£156.9 billion
Health Care	£142.7 billion
Education	£85.2 billion
Defence	£45.6 billion
Welfare	£113.1 billion




Level 3 – Functional Improvements



 HM Government

Digital Built Britain

Level 3 Building Information Modelling - Strategic Plan

 HM Treasury

BUDGET 2016

to support the growth of alternative network developers by providing greater access to finance.

2.322 Digital standards in construction – The government will develop the next digital standard for the construction sector – Building Information Modelling 3 – to save owners of built assets billions of pounds a year in unnecessary costs, and maintain the UK’s global leadership in digital construction.

2.323 Ultrafast broadband grant scheme – The government will distribute £14.5 million in



August 2014

HC 901

March 2016

<http://digital-built-britain.com/>

Internet Of Things

Bristol is making a smart city for actual humans



Open Programmable City



Group Discussion - Considerations



Questions:

1. Given the impact social care is having on national budgets can technology support an answer?
2. Is a technology led solution going to come from industry or Government?
3. What could / should be done to support industry to help find a solution?
4. How do you consider digital solutions could make a difference? And what time horizons might they occur?

- Feed Back
- Discussion
- Close

Thank You
Terry Stocks



Link to [Fgould.com](http://fgould.com) Website for an Interactive Introduction To BIM

FGOULD.COM

1942 First nuclear chain reactor

1945 Desk-sized memory store called Memex, (future incorporated into electronic books and the World Wide Web (WWW)).

1950s Cooking with microwaves, inadvertently inventing the microwave oven.

1958 Integrated circuits developed.

1963 one of the first computer-aided design programs developed

1964 IBM helps to pioneer e-commerce with an airline ticket reservation system

1971 The first single-chip computer or microprocessor.

1973 First handheld cellphone (mobile phone).

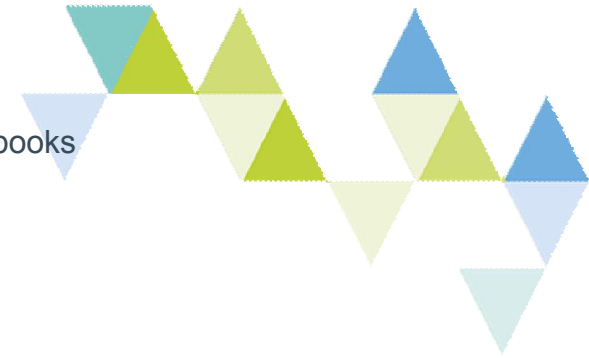
1976 Steve Wozniak and Steve Jobs launch the Apple I: one of the world's first personal home computers

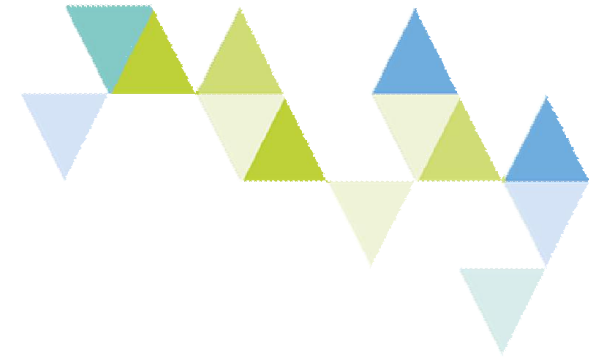
1981 The Space Shuttle makes its maiden voyage.

1989 Tim Berners-Lee invents the World Wide Web.

1995 First online radio stations.

1997 Wi-Fi a worldwide standard for wireless Internet.





2002 iRobot Corporation releases the first version of its Roomba® vacuum cleaning robot.

2005 A pioneering low-cost laptop for developing countries called OLPC is announced by MIT computing pioneer Nicholas Negroponte

2007 Amazon.com launches its Kindle electronic book (e-book) reader.

2007 Apple introduces a touchscreen cellphone called the iPhone.

2010 Apple releases its touchscreen tablet computer, the iPad.

2016 – IOT / SMART Connectivity