

› PUBLIC-PRIVATE PARTNERSHIPS FOR RESEARCH AND INNOVATION

6CP Workshop: What would Walter say? 50 years of innovation politics |
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The Hague, 16 December 2016

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PUBLIC-PRIVATE PARTNERSHIPS FOR R&I / STI: GOING BACK IN TIME

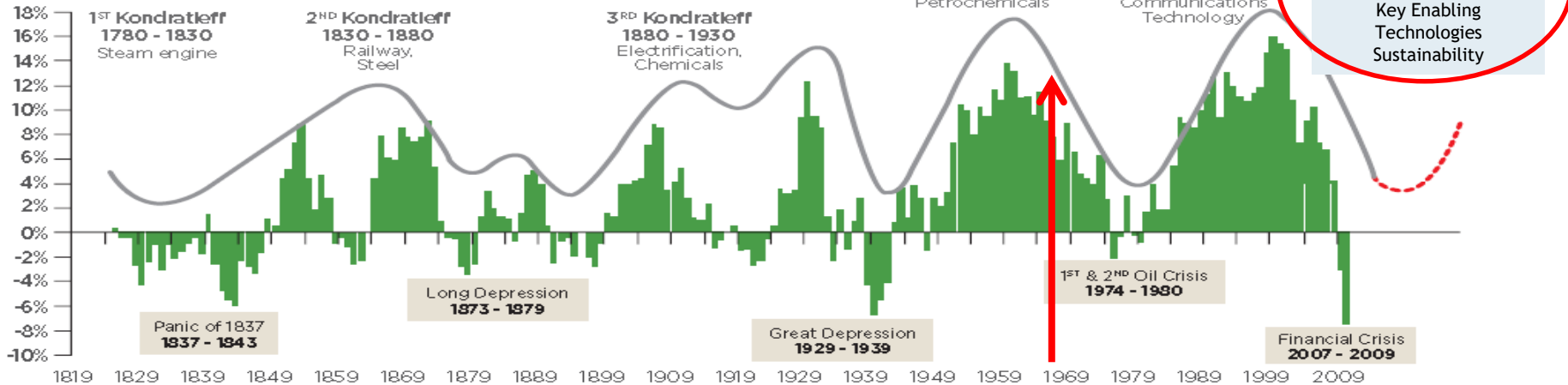
- › 50 years ago? → **1965**: years of *strong economic growth*, welfare state under construction, years of technological progress, rising capital/labour ratio, industrial change
- › Years also of *democratisation*, ‘flower power’, feminist movement, student revolutions

- › On the brink of a new era – technologically: personal computer (1975: IBM pc, 1977: Apple II)

- › Early 1980s: end of ‘old’ industrial policy era -- search for new pathways
- › Search for new ways and structures for innovation and growth
- › Early 1980’s: start of ‘modern’ PPPs in R&I
 - › Less ‘technology push’, more ‘demand pull’ – who is the ‘client’?
 - › Dutch ‘*Innovation-oriented Research Programmes*’ (IOP’s)(1980)

ECONOMIC GROWTH, INNOVATION AND THE LONG TERM -- KONDRATIEFF CYCLE

■ Rolling 10-year yield on the S&P 500



PUBLIC-PRIVATE PARTNERSHIPS FOR R&I / STI: FROM 1980s UNTIL 2008 FINANCIAL CRISIS

- › Strong rise of PPPs in R&I in policy - Europe and elsewhere
- › Parallel to popularity of PPPs for physical infrastructure / construction
 - › Privatisation, deregulation (Thatcher, Reagan years and beyond)
 - › PPPs -- New Public Management (NPM) (Hood, 1991; Osborne en Gaebler, 1992)

- › Impact of new concepts in innovation and growth on rise of PPPs in R&I:
 - › Clusters (Michael Porter, 1990)
 - › Triple helix (Etzkowitz and Leydesdorff, 1995)
 - › Open innovation (Chesbrough, 2003)
 - › Business / innovation ecosystems (Moore, 1993)

PUBLIC-PRIVATE PARTNERSHIPS FOR R&I / STI: THE NOW AND THE FUTURE

- › Rise of **strategic PPPs** in R&I: large-scale investment, high risk, multidisciplinary, multiple actors
 - › For breakthrough research / radical innovation/ mission-oriented innovation (cf. *Grand Challenges*)
 - › For testing, prototyping, demonstration: rise of 'fieldlabs', 'innovation hubs', 'pilot lines'
- › PPPs introduced at the European level, as response to crisis and search for growth stimuli:
 - › JTI's, cPPP's
 - › KIC's (EIT) -- triple helix-based
 - › European Competence Centres & Digital Innovation Hubs
- › New generation PPPs at national level: e.g. Dutch 'topsector policy' (TKI and 'PPP supplements'), German Forschungscampus initiative, UK Catapults, German Mittelstand 4.0, etc etc
- › Again on brink of a new era – 'second machine age', 'fourth industrial revolution', major transition
 - › IoT, blockchain, artificial intelligence, 3D-printing, materials, man-machine interaction, ...

PUBLIC-PRIVATE PARTNERSHIPS FOR R&I / STI: FOOD FOR FURTHER THOUGHT AND DISCUSSION

- › *Strategic PPPs* in R&I: new tool for competition for the nation state? (esp higher TRL, in attracting FDI)
- › How to best align European and national strategic PPP initiatives?
- › Low TRL PPPs in R&I: strategic but who really benefits? What are the societal returns?
- › What future for partnerships in an increasingly protectionist and isolationist world?

› **THANK YOU FOR YOUR
ATTENTION!**

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