





Lorenzo de Medici ruler of the Florentine Republic

15<sup>th</sup> Century

Banks were an innovation!

14<sup>th</sup> Century



# Innovation funding through the ages

Middle Ages

Noble & religious Patronage

Age of Enlightenment

Self-funding

State sponsored "Prizes"

Universities

Philanthropy

18th & 19th Century Industry

20th & 21th Century

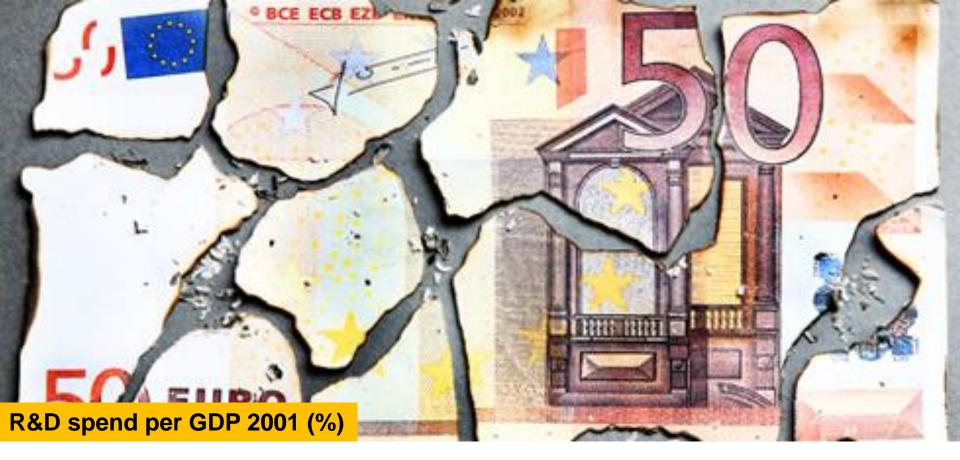
VCs

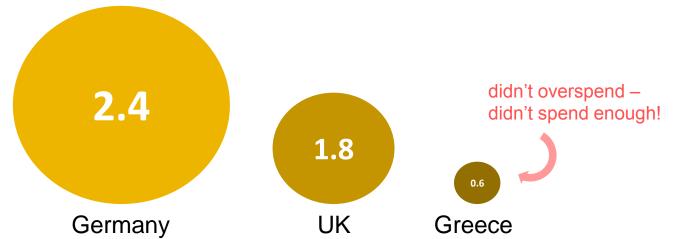
State as investor



University was given to the people of Leiden by Prince William of Orange as a thank you for the heroic defence against the Spaniards in 1575







WHAT DRIVES GDP?

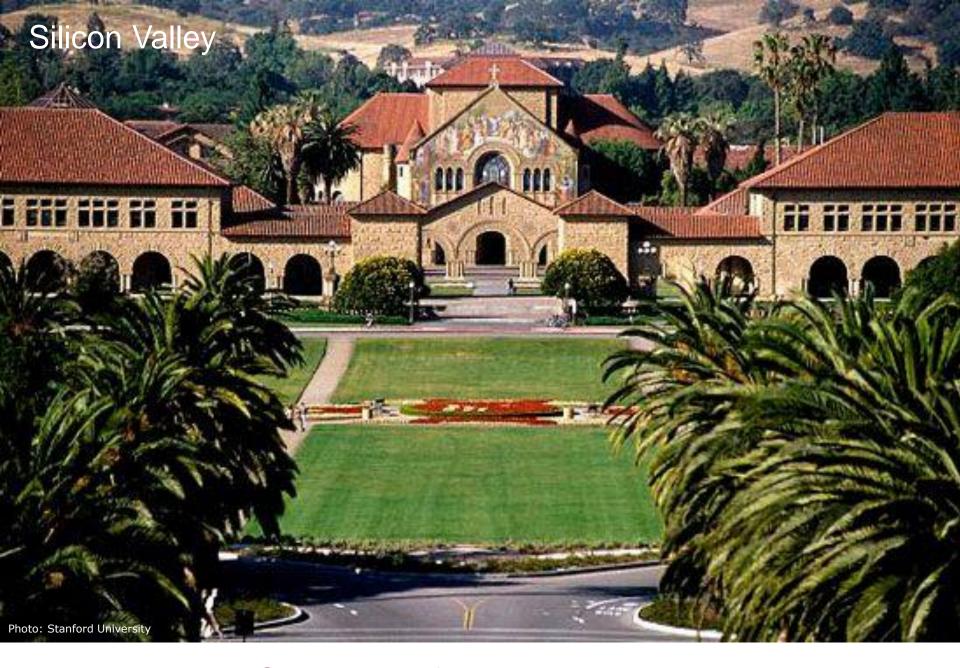
Financial services

Hospitality services

Construction

Creative industries

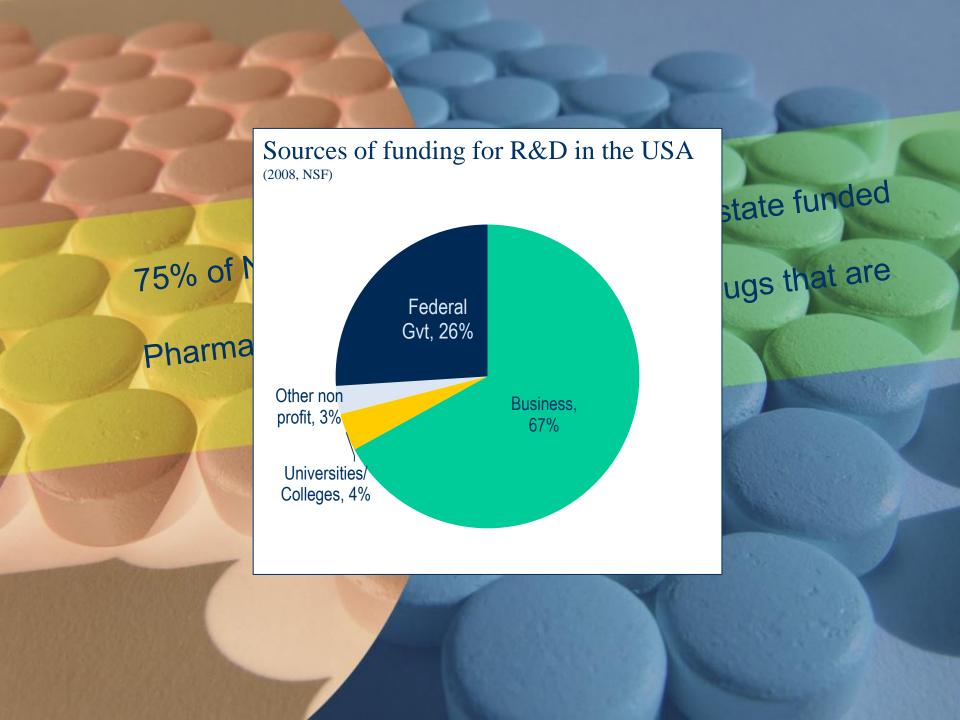




Cold War defence spending

State funded research has given us ...





### The State can set the direction and make things happen

"The role of the State has been more about taking on risk with courage and vision

not simply taking it away from someone else who then captures the returns" (Mazzucato)







**Touch Bionics** 



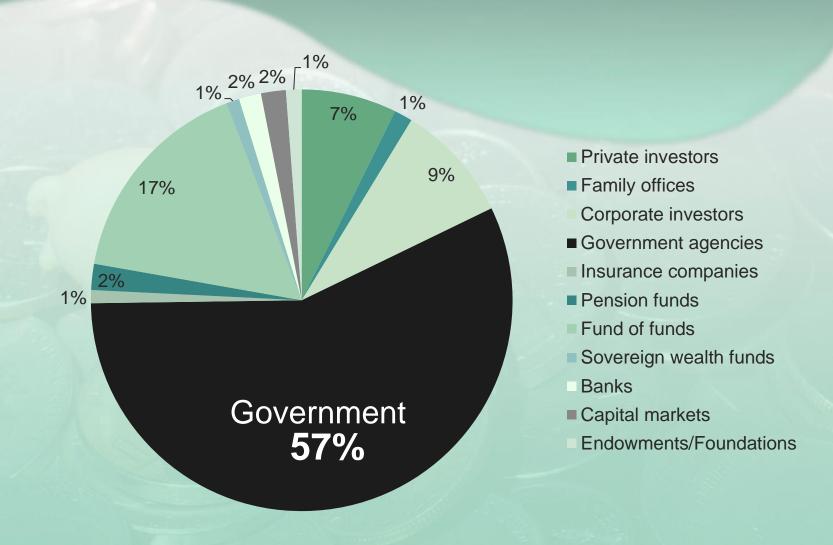




Photos: SHIL



## Source of investors in European Venture Capital (2011, EVCA)







#### **Enterprise Capital Funds**

Get private investors to invest in early stage VC funds



#### Angel Co-investment Fund

Get angels to invest in more early stage deals





#### Enterprise Finance guarantee

Get banks to lend to SMEs



## The State needs to wear mauve

Perkins discovered mauve dye by accident 1856

He patented it and went on to manufacture, derided by his scientific peers

1862 Queen Victoria appeared at the Great Exhibition in a mauve silk gown

By 1870, its great demand succumbed to newer synthetic colours in what became a new synthetic dye industry

Public procurement accounts for 17% of the EU's GDP