



Bureau  
d'Economie  
Théorique et  
Appliquée

Jean-Alain HÉRAUD



# Learning Economy and Innovation Systems

*M2 “Economie industrielle et économie de la connaissance”*

*2005-2006*

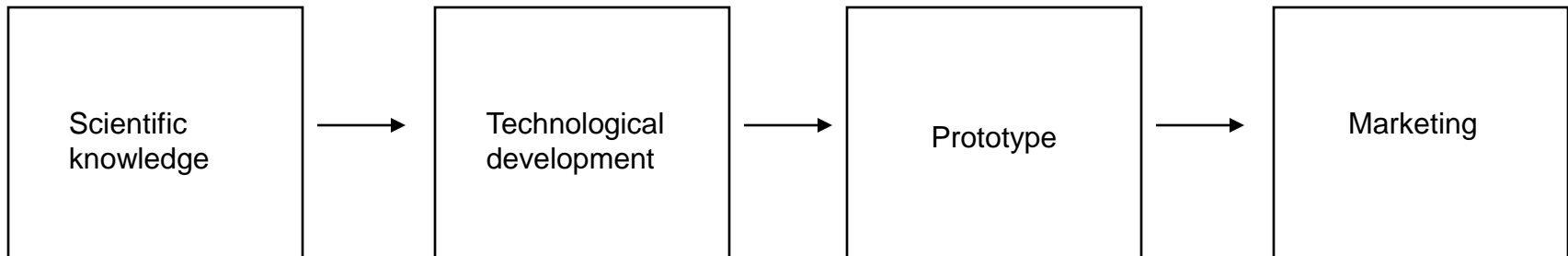
## Innovation following Schumpeter (1931)

- *New product (not yet known at consumer's level) or new quality of existing good*
- *New production method (process not yet known in the sector)*
- *Opening a new market*
- *Introducing a new natural resource or intermediate product*
- *New organisation (impacting production process, or industry structure)*

# Technology push *versus* demand pull (1)

- „Technology push“

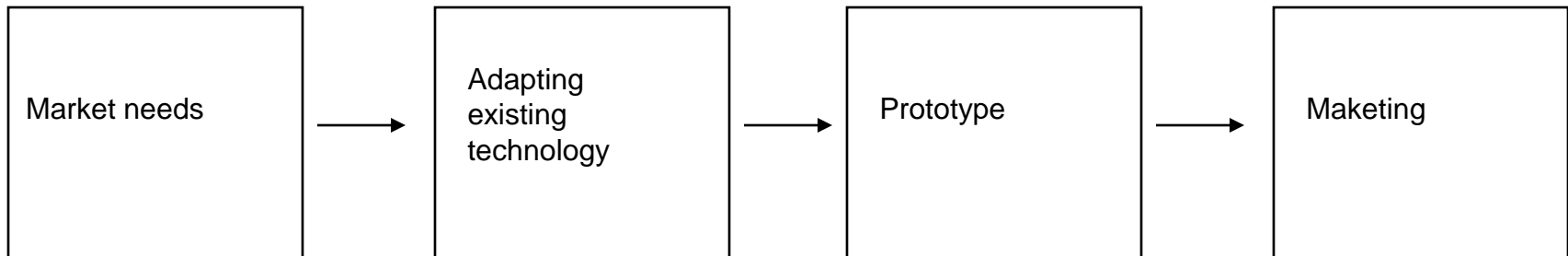
(Schumpeter I)



# Technology push *versus* demand pull

- „Demand pull“:

(Schmookler)





# Three levels of knowledge creation

| <b>Levels</b>               | <b>Activities</b>                               | <b>Results</b><br><i>measurement</i>                      |
|-----------------------------|---|---|
| <b>Science</b>              | Basic Research<br>(exploratory or<br>finalised) | Scientific<br>discovery<br><i>publication</i>             |
| <b>Technology</b>           | Applied<br>research                             | Invention<br><i>patent</i><br><i>(not systematically)</i> |
| <b>Economy/<br/>society</b> | Industrial/<br>commercial<br>development        | Innovation<br><i>Sales, profits,<br/>employment,...</i>   |