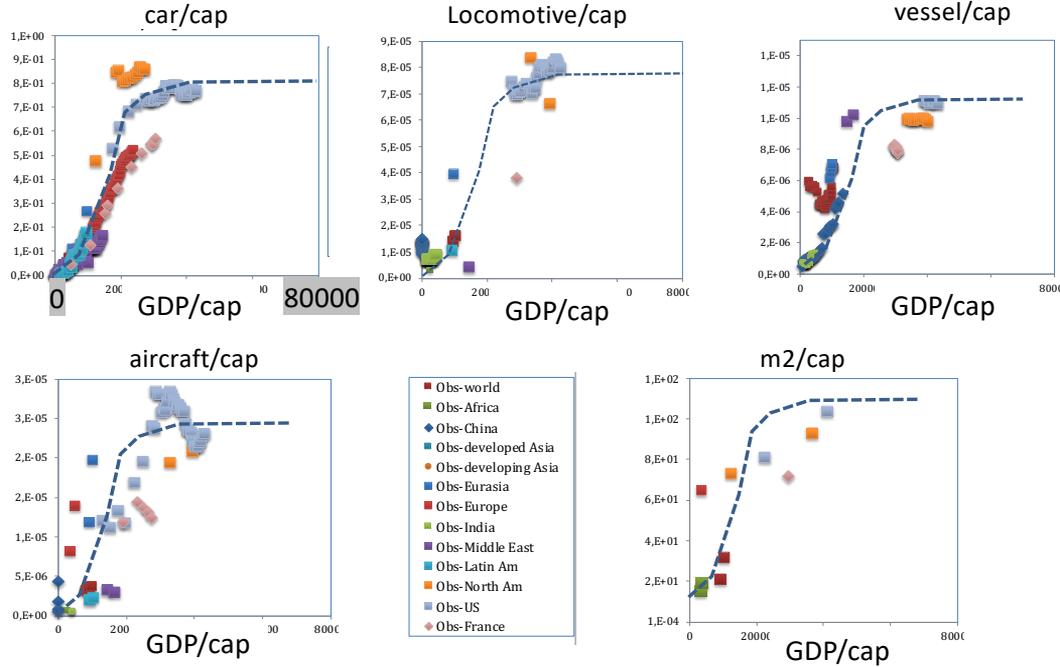
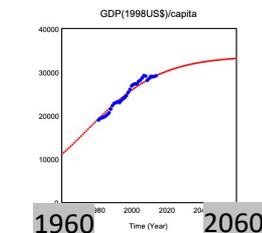
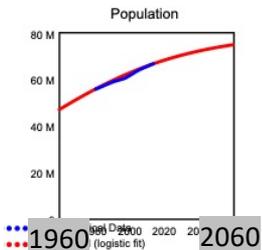


# Consommation/hab - tendanciel

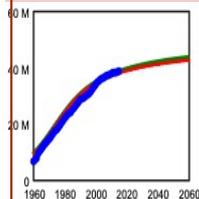


## Population & GDP

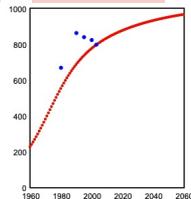


## Infrastructure

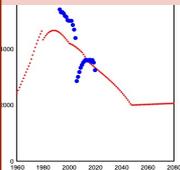
### Automobiles



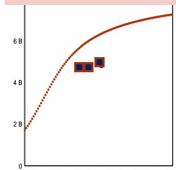
### Avions



### Locomotives



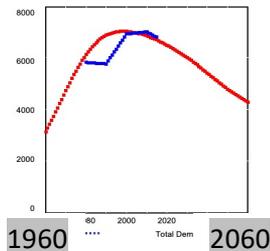
### m2 batiment



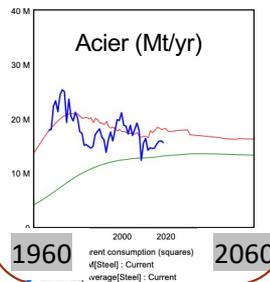
Appareils domestiques, etc

## Ressources

### Energie (PJ/yr)

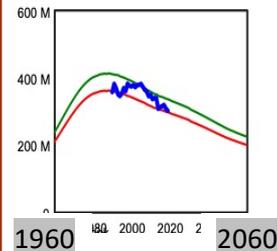


### Ressources minérales

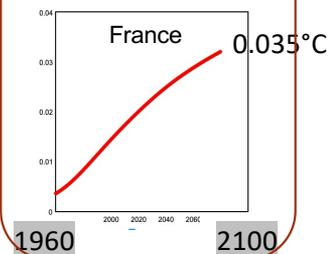


## Impacts

### CO2 (Mt/yr) - émissions locales

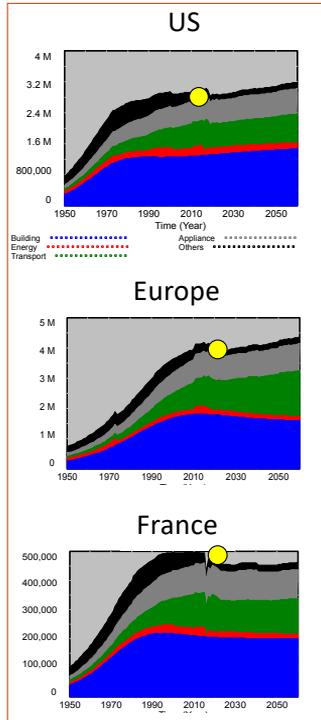


### Contribution locale au réchauffement global

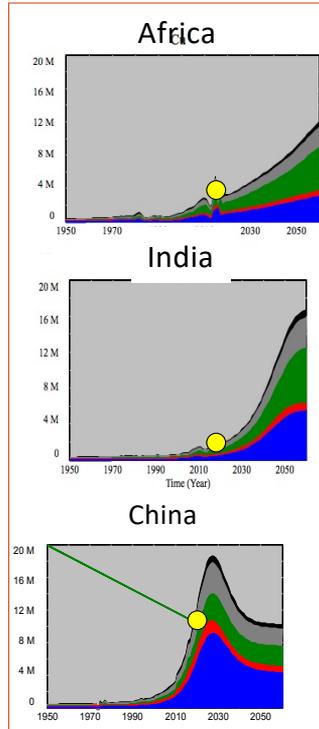


# La demande dépend des évolutions de PIB/hab – ex: (Cu en t/yr)

## Developed countries

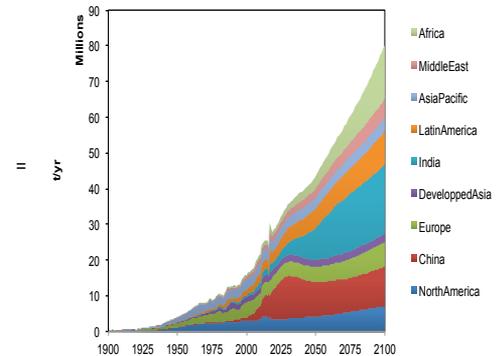


## Developing economies



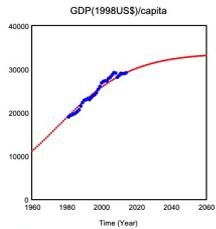
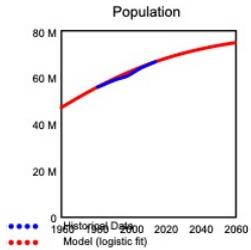
+

## World

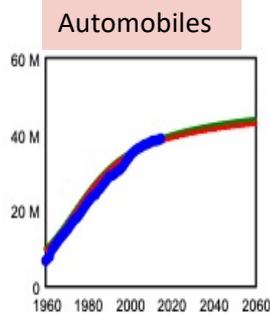


# Comment s'écarter de l'évolution tendancielle ?

## Population & GDP



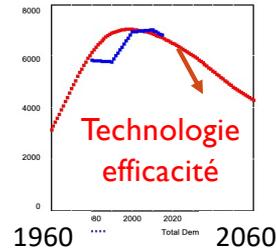
## Infrastructure



## Ressources

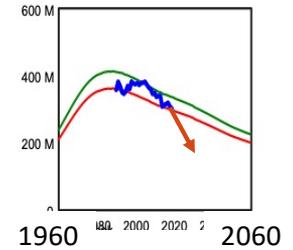


## Energie

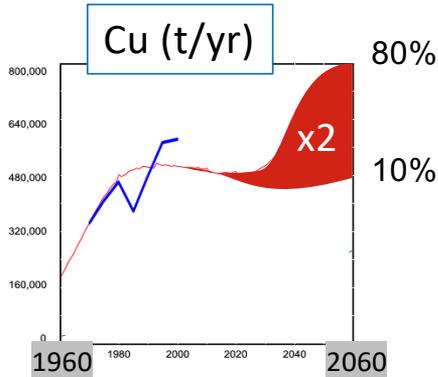


## Impacts

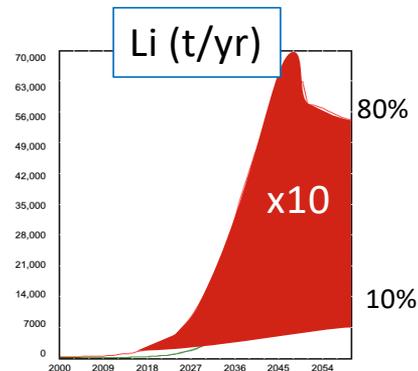
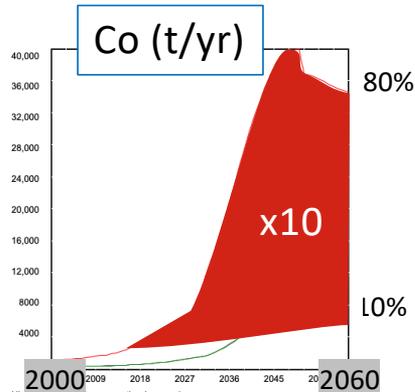
## CO2 emissions



# EV, durée de vie = 13 ans, batterie Li-ion= 10 ans



Les métaux ne sont pas extraits en France  
=> exportation des impacts et vulnérabilité



Baisse de qualité des gisements exploités => augmentation des coûts et prix - **impacts ?**

