

Sustainability and Green IT

- Numeto: 1
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Introduction

Objectives:

- Understand what are sustainable development main points, concerns, and vocabulary.
- Have a general knowledge on sustainable development issues with a focus on environment.
- Understand what is Green IT and IT for Green.
- Know some of the basic tools: Life Cycle Assessment, GHG emission calculation (Bilan Carbone), norms and labels linked to Green IT.
- Understand and know which good practices I can develop both as an individual and as an IT Engineer.

There will be 3 sessions of 4 hours.

Assessment:

- Exercises during the sessions.
- Last session (session 4th) presentation (4-5 students). Select a company with Green IT actions. We have to present their green IT actions.
 - Choose at least **4 Green IT** actions and explain why they can be considered as good practices and what is their impact.

Development challenges and stakes

Sustainable development is a balance between these pillars:

- Economical
- Social
- Environment

First challenge (Population Growth)

- Today earth population: 7.4 billion
- 2050 expected earth population: 9.7 billion

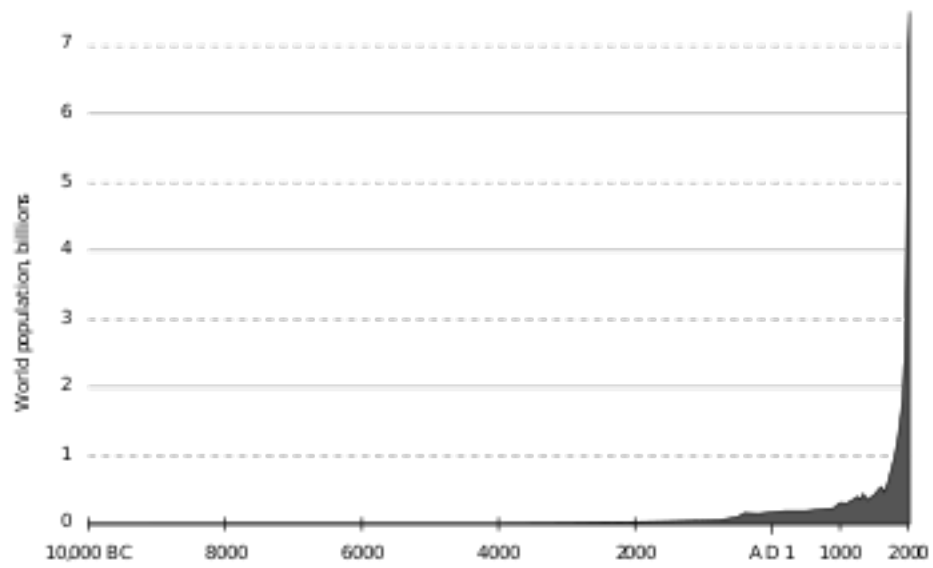
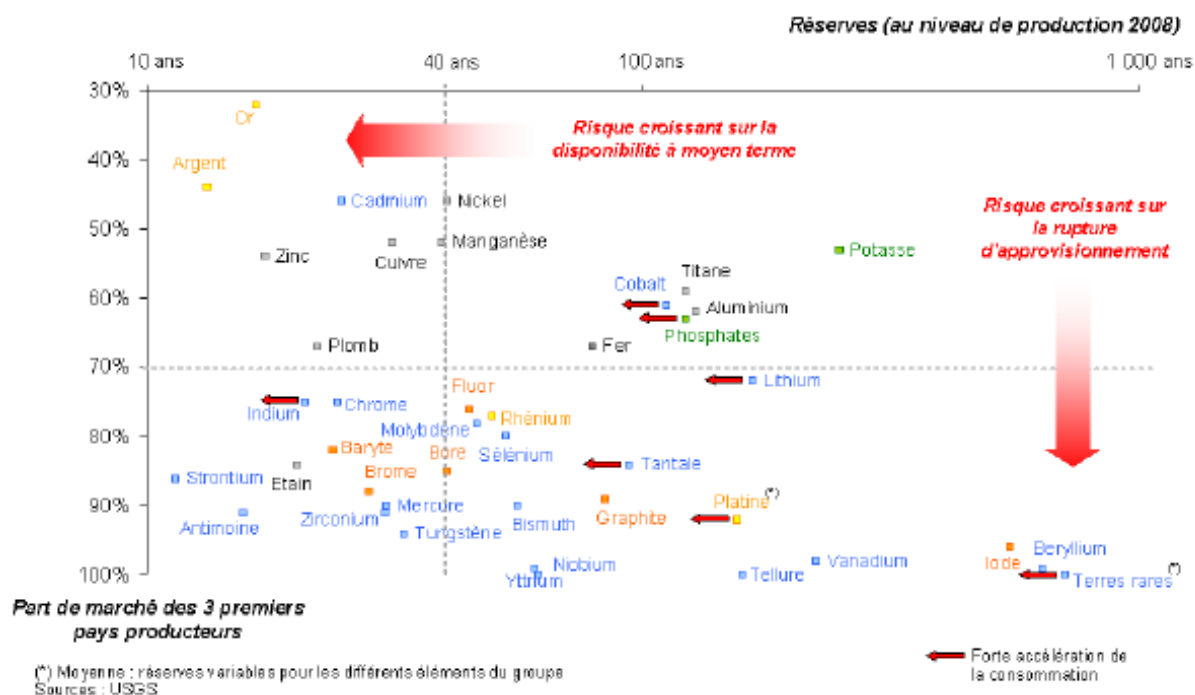


Figure 1: World population graph

Metal in IT and electronics

Criticité potentielle des ressources minérales (visibilité sur les réserves et concentration de la production)



Greenhouse gas