



Urban farming, a key to progress to a circular economy, some experiences .

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DEPUIS
1986



◆ Circular economy,

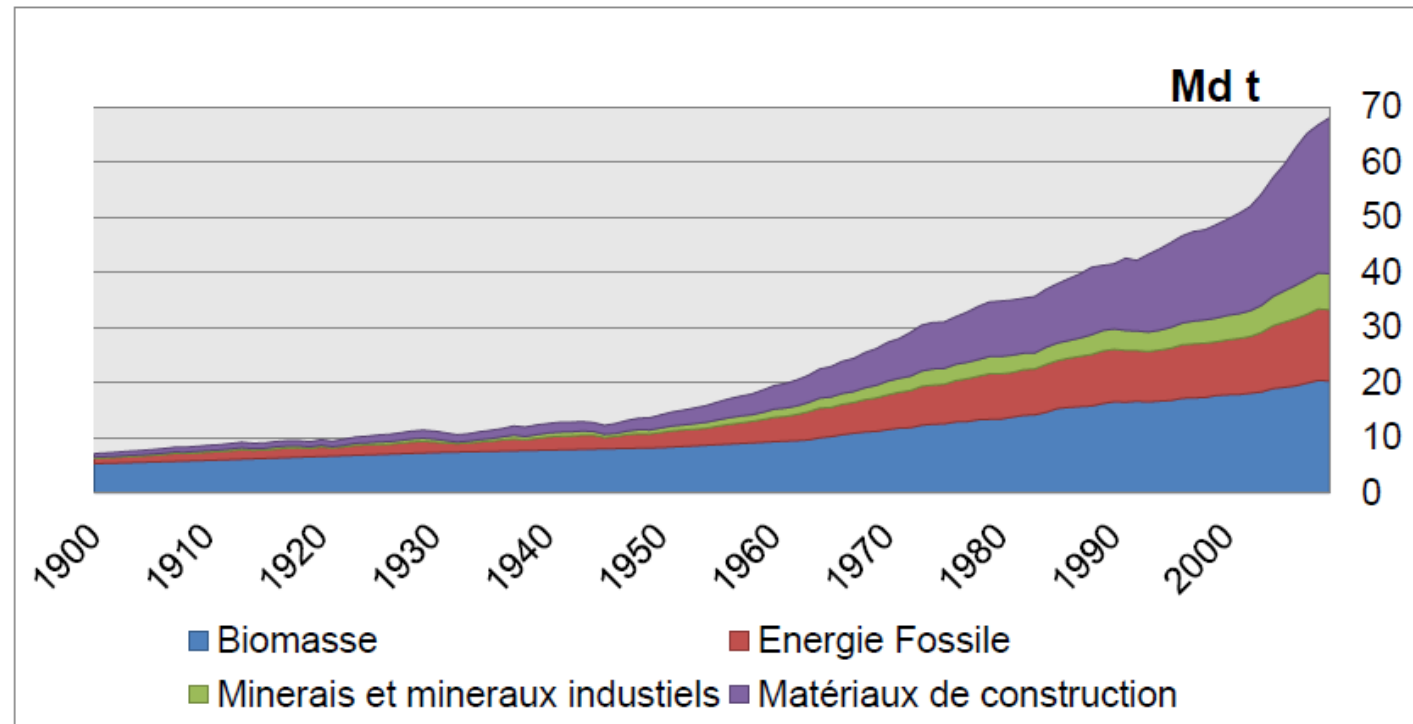
Circular Economy : an economical production and exchange system aiming, for the whole lifecycle of a product, (good and service) at increasing efficiency and decreasing environmental impacts.
(ADEME 2015)



a systemic approach of the material urban area functioning to find efficient mass and energy use.

Biomass :

- the second material flow used by the current linear economy
- an important part of this biomass flow is for food-industry productions



Source Krausman et al, 2009, MâJ 2011

Circular economy and cities



Urban metabolism of Paris on <http://metabolisme.paris.fr>, based on Barles 2003

Modern european cities :

- Food flows are one of the main flows,
- The biggest solid waste flow, wastes from construction industry,
- A main component : excavated soils.

In the past, urban areas development limited by the food supply. Today , food autonomy development becomes a tool for initiate circular economy transition with for the biomass flow :

- Local productions with better economic and environmental impacts
- Solution for some cities excretas (organic wastes, soils...)

◆ Example 1 : urban farming project, an efficient « first step » to circular economy approach



Urban farming project from the Grand Paris Sud Seine Essonne agglomeration. An urban planning project for industrial and agricultural wasteland :

- housing and commerce project (8ha)
- agricultural project : 19ha dedicated to agriculture and green spaces.

The systemic approach shared with the local authorities allows to ask questions on interactions between the two sub-projects :

- How to supply inhabitants of the agglomeration?
- How to supply public food service?
- How to supply the agricultural area (organic fertilizer...)?...

Livre Blanc : L'économie circulaire, un atout pour relever le défi de l'aménagement durable des territoires !, ADEME 2017

Example 2 : Urban farming : a solution to the main waste problem : excavated soils



Source : Ourcq fertile

30 km from Paris
Excavated soils
from construction
and building works
: infertile

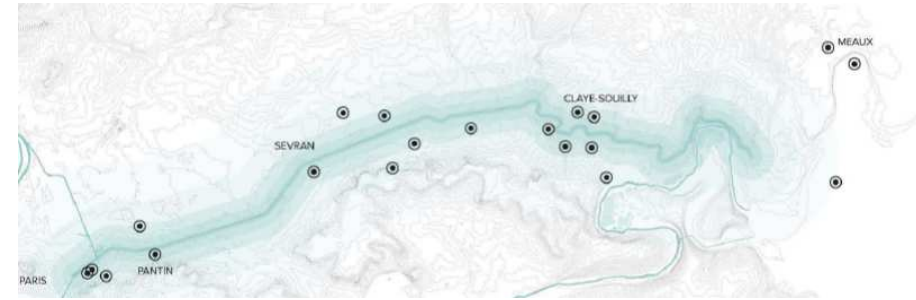


Fertilization of
these new soils



Agricultural productions
(fruits, vegetables, meat...)

Paris



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