



CAMBIO CLIMATICO EN ECUADOR

Dominique Perrin

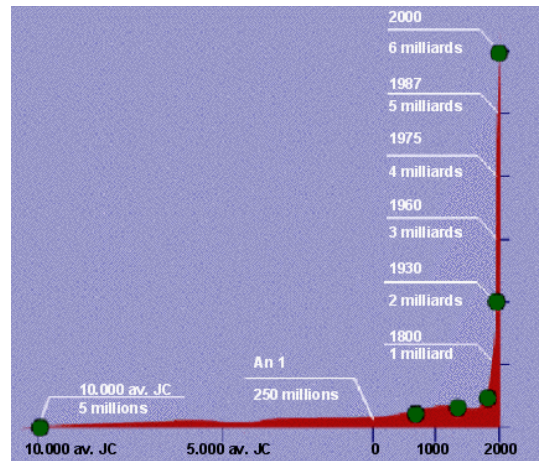
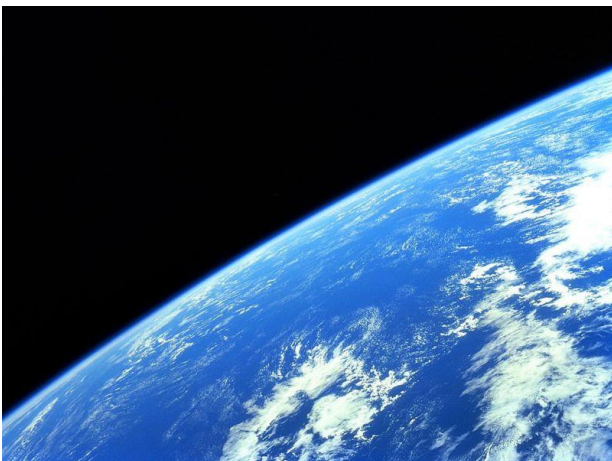
Agence Wallonne de l'Air et du Climat (AWAC) / ULg

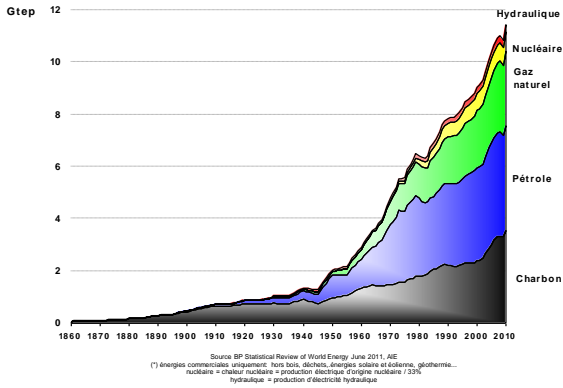
Pierre Ozer

Département des Sciences et Gestion de l'Environnement, ULg

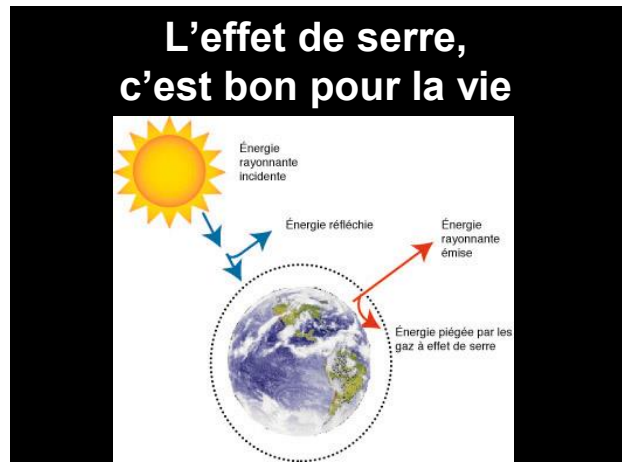
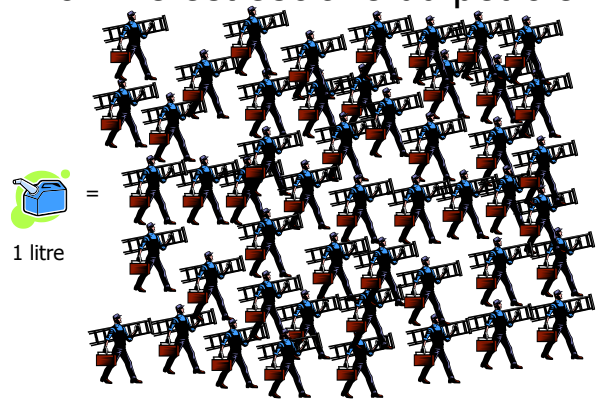


Universidad Estatal del Sur de Manabi, Jipijapa, 2016

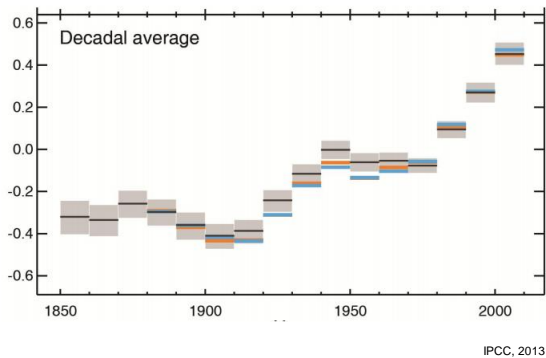




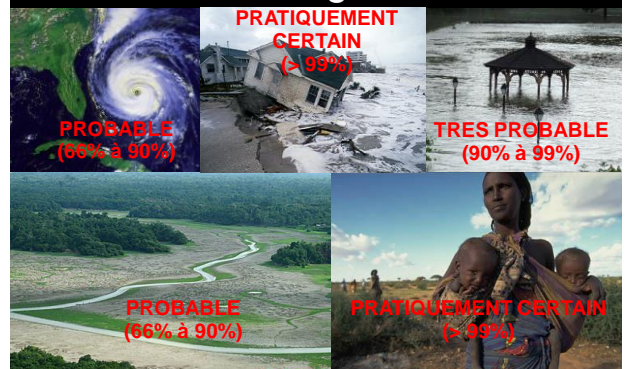
L'homme est esclave du pétrole



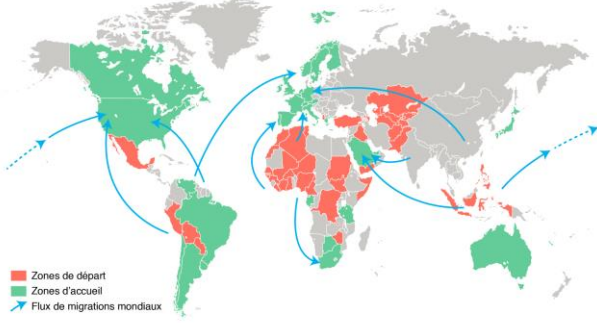
Température globale par décennie de 1850 à 2010



Une cascade de conséquences avec une augmentation



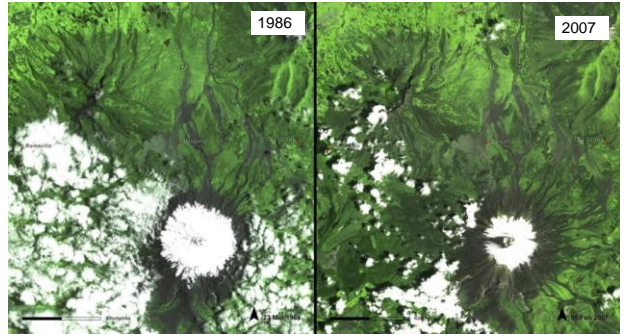
Les migrations environnementales mondiales



Source : Sécurité Mondiale, Global Estimates, Le Figaro, Espace Prépa, Le web pédagogique, Le monde diplomatique, Climate Research.

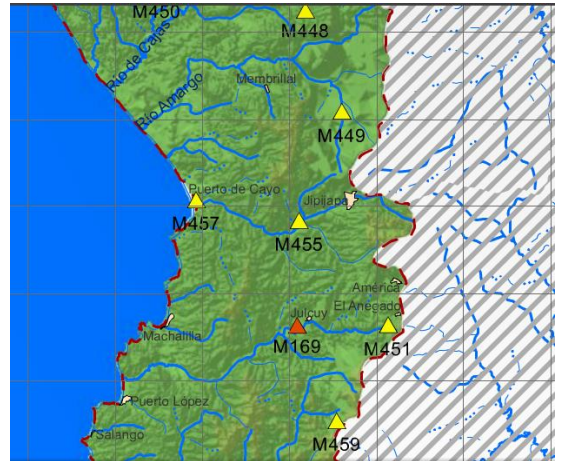
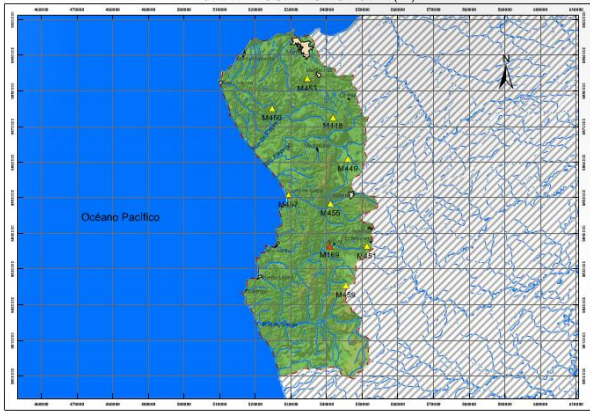
COTOPAXI

La masa del glaciar se ha reducido en 30% entre 1956 y 1976 y otro 38,5 por ciento entre 1976 y 2006

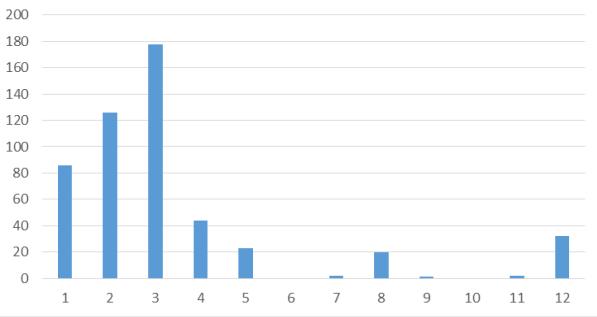


<http://www.cop20.pe/>

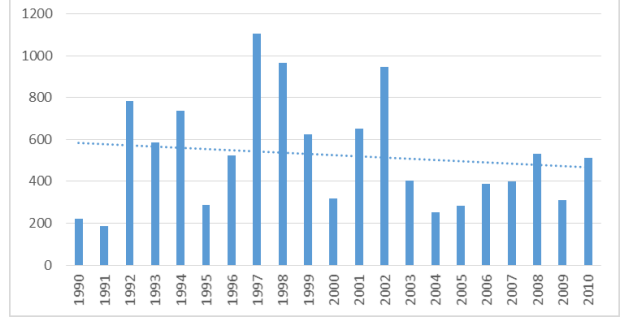
ZONA HIDROGRÁFICA: JIJILAPA (11)

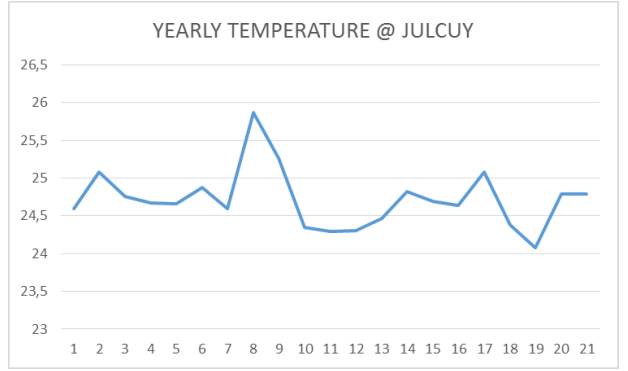
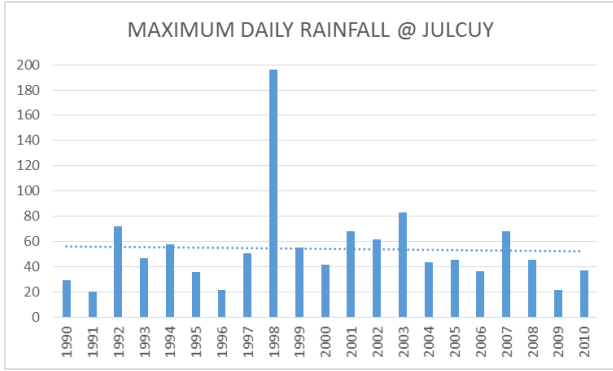


MONTHLY RAINFALL @ JULCUY



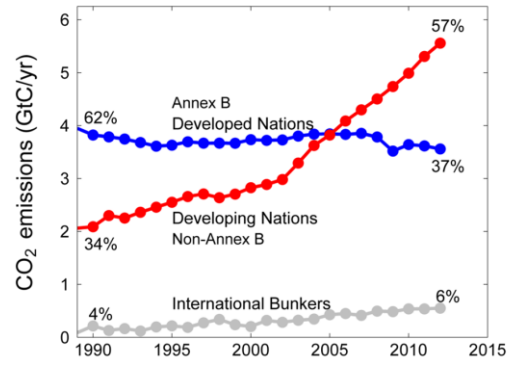
TOTAL RAINFALL @ JULCUY





Qui est responsable?

Emissions (cadastrales) de CO₂ dues à la combustion des énergies fossiles

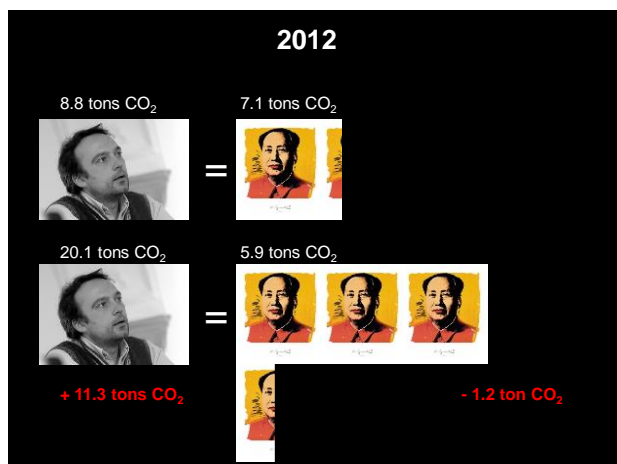
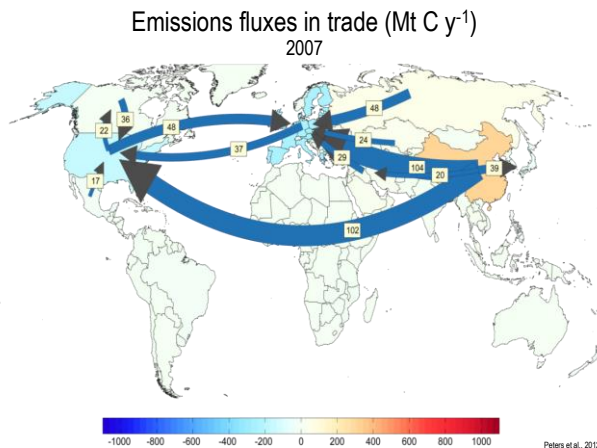
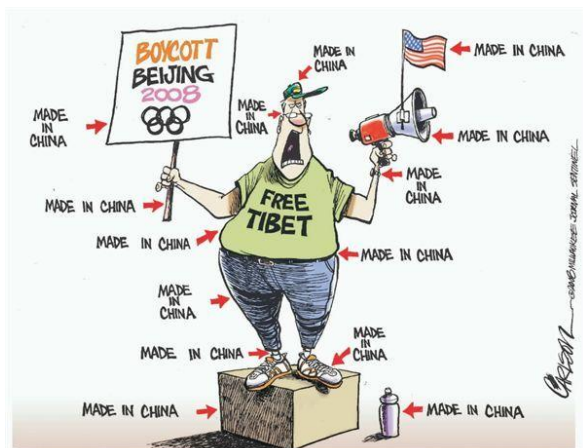


2012

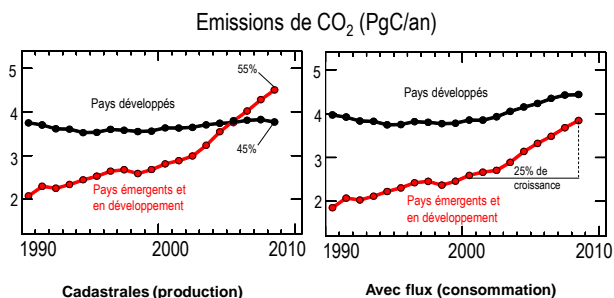
8.8 tons CO₂

2012

8.8 tons CO₂ = 7.1 tons CO₂



Emissions de CO₂ dues à la combustion des énergies fossiles intégrant les flux



Rappel des principes

- Solidarité obligatoire
- Responsabilité commune mais différenciée
- Un monde complexe et multipolaire

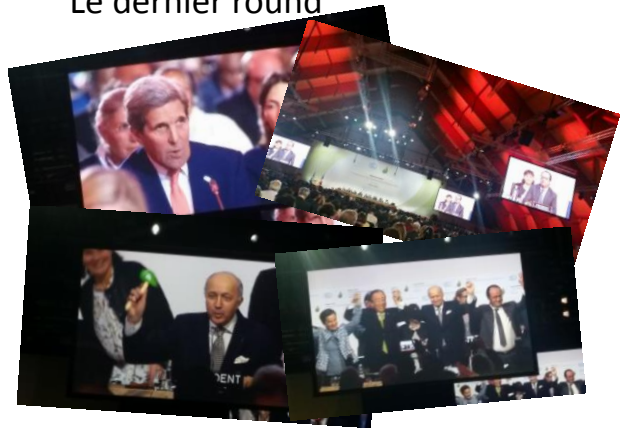
Momentum

- 2015: Année la plus chaude
- 2015: Récord d'émissions de GES
- Pétrole à 35 US\$ / baril (0,20 € / l)
- 2015: 3 fois plus de déplacés 'environnementaux' que 'conflits'
- Pollution en Chine, inondations en Inde, incendies & tornades aux USA
- Attentats de Paris
- Crise des réfugiés

COP 21 PARIS



Le dernier round

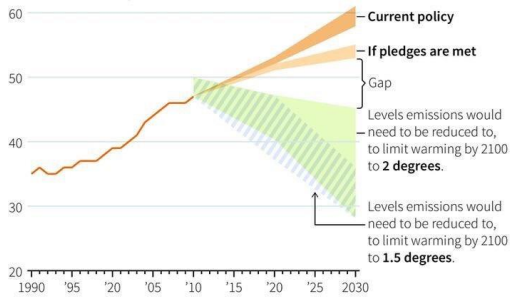


Global greenhouse gas emission gaps

Current government policies and pledges made are not enough to reduce emissions to levels they need to be at to limit global warming over the next century to 1.5-2 degrees.

PROJECTED EMISSION RANGES

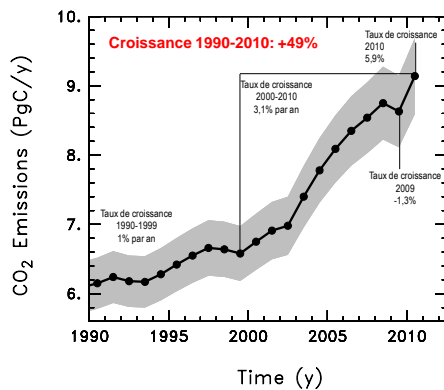
Unit = GtCO₂e*; pledges as of October 1



Source: Climate Action Tracker
J. Wang, 13/12/2015
*Gigatonnes of carbon dioxide equivalent
© REUTERS

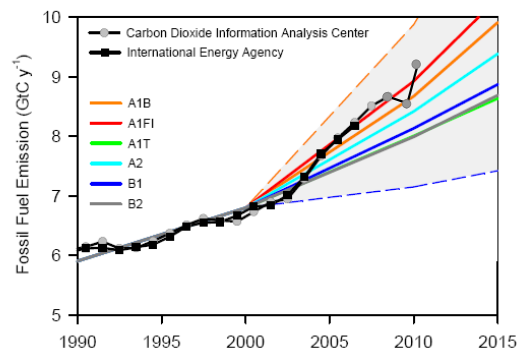
**Sommes-nous
prêts
à changer?**

Emissions de CO₂ dues à l'usage des combustibles fossiles (1990-2010)

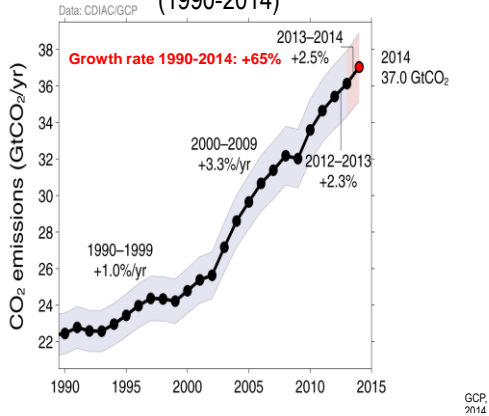


Peters et al. 2011, Nature CC; Data: Boden, Marland, Andres CDAC 2011; Marland et al. 2009

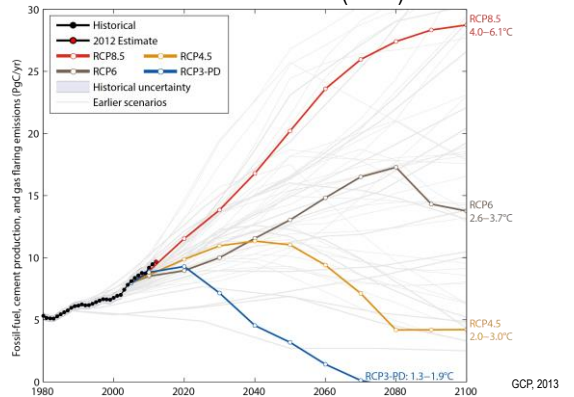
Emissions de CO₂ dues à l'usage de combustibles fossiles vs scenarios du GIEC (1999)



Emissions de CO₂ dues à l'usage des combustibles fossiles (1990-2014)

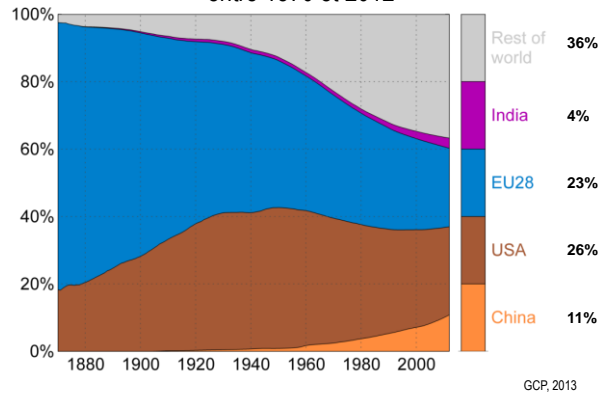


Emissions de CO₂ dues à l'usage de combustibles fossiles vs scenarios du GIEC (2012)



Responsabilité historique?

Emissions historiques de CO₂ cumulées par pays entre 1870 et 2012

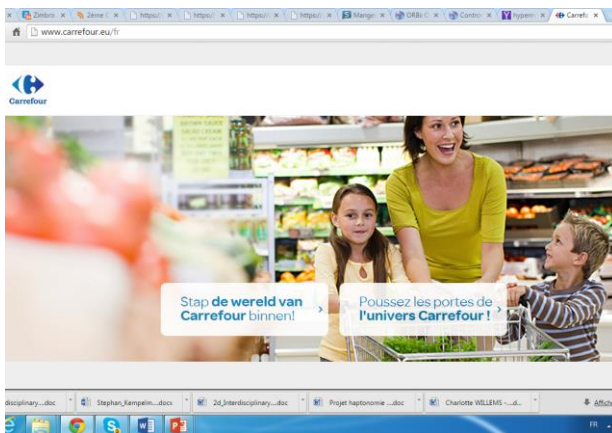
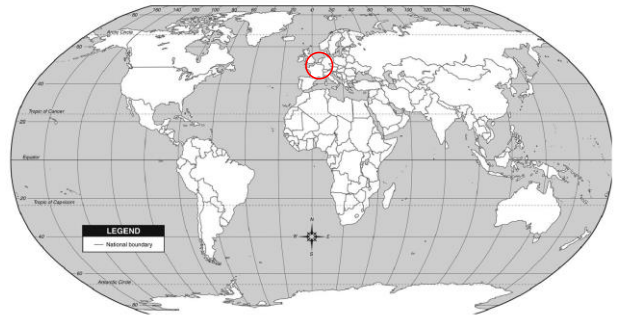


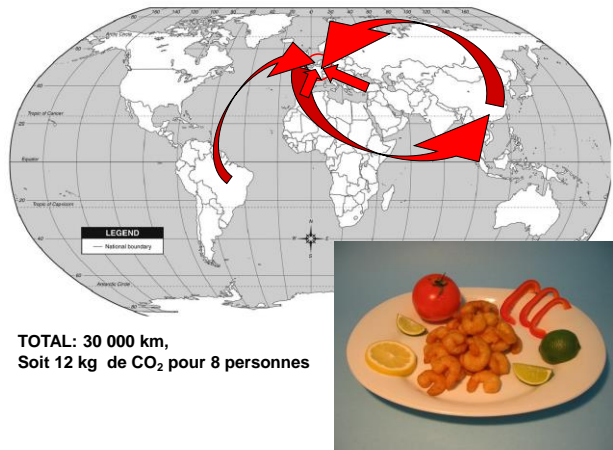
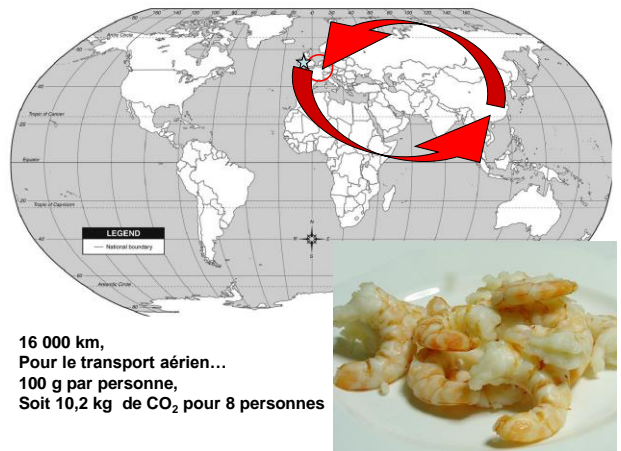
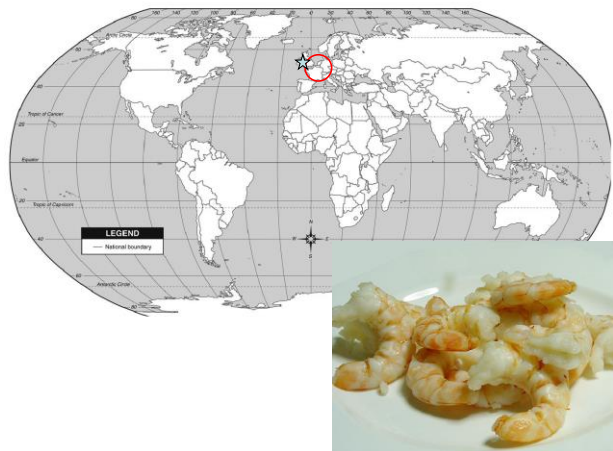
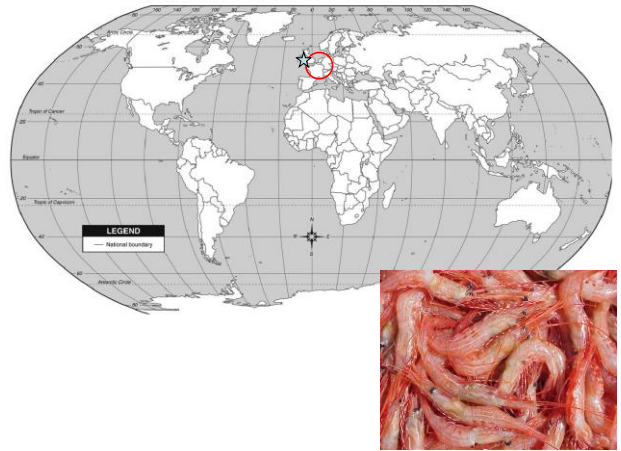
Sommes-nous prêts à changer? Comportements



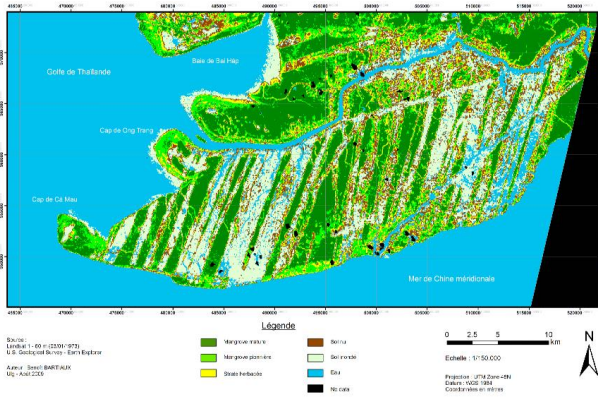
Bon appétit, les ouistitis !

Variations autour de
NOUS et notre assiette

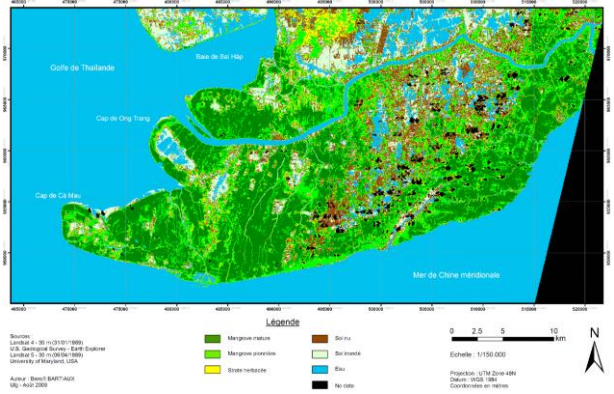




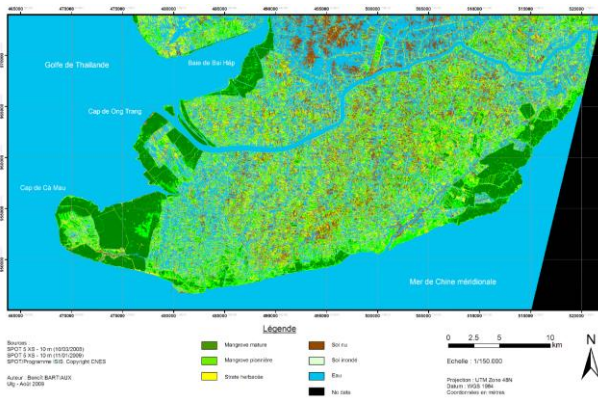
Land use in 1973



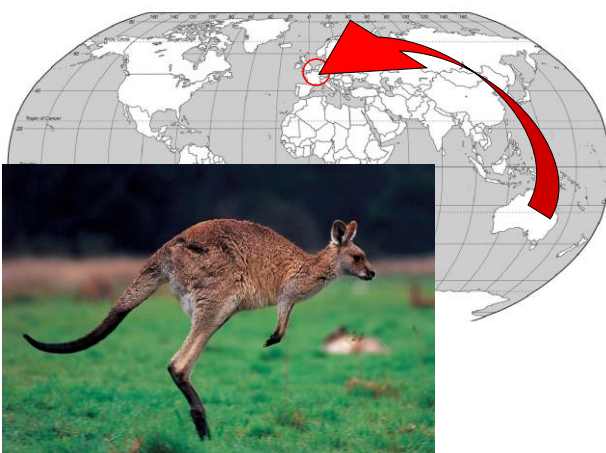
Land use in 1989

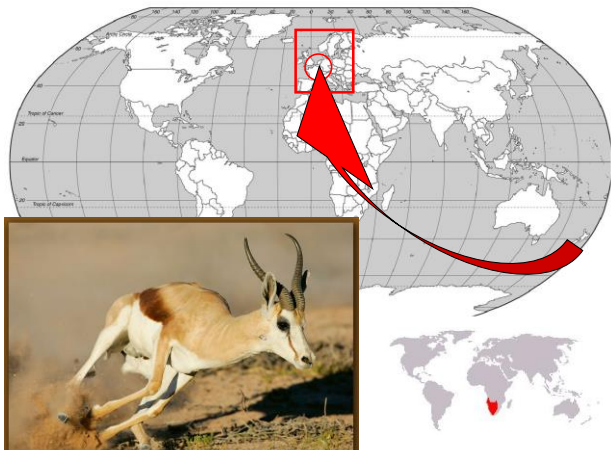
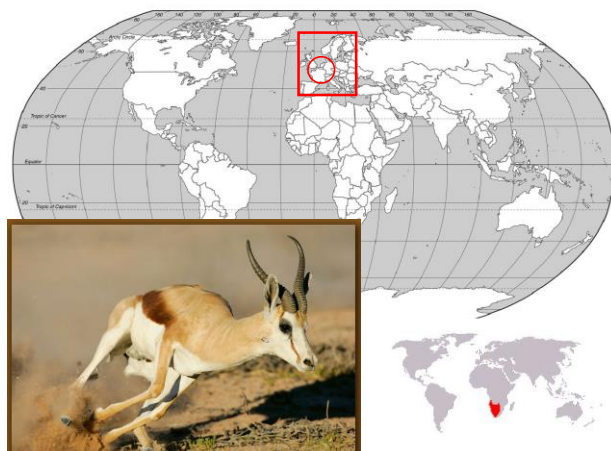
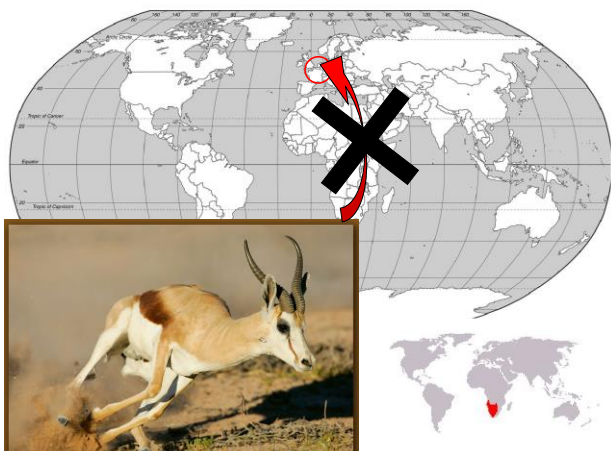
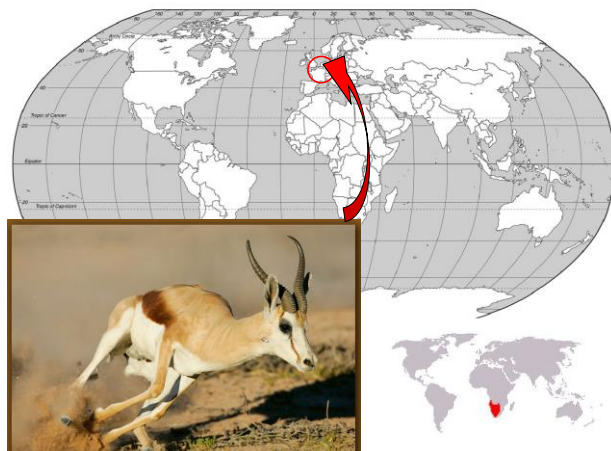
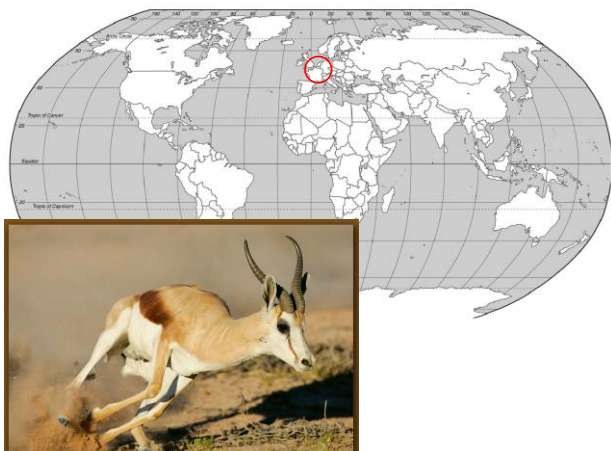


Land use in 2009



Plat de consistance





Les viandes exotiques

Springbok meat packaging showing a portion of meat on a plate. The price is €39.99, with a crossed-out price of €44.99. The gain is €5. The origin is listed as Europe and New Zealand. Below the map is a small inset map of Africa with a red dot in the southern region.

Filet de springbok
origine: Europe et Nouvelle-Zélande

Le kilo

€44.99
Gain: €5
€39.99

Les viandes exotiques

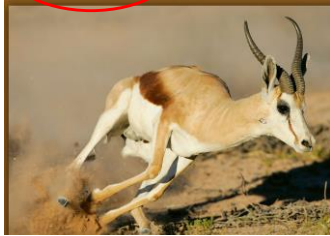


Filet de springbok
origine: Europe et Nouvelle-Zélande

€44⁹⁹
Gain: €5



€39⁹⁹

Le kilo



Carrefour

La magie des fêtes

Top affaire!



Carrefour

La magie des fêtes

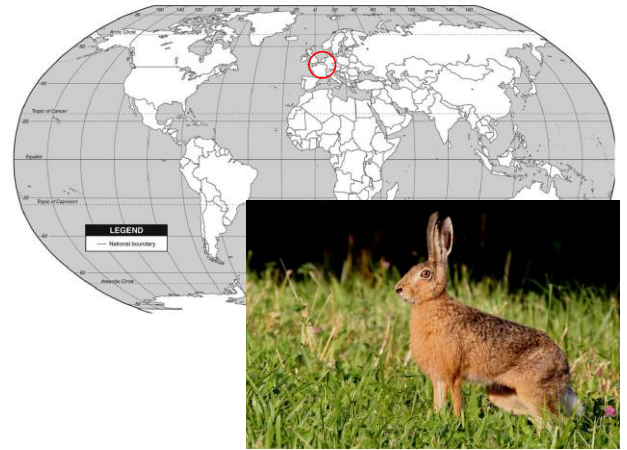
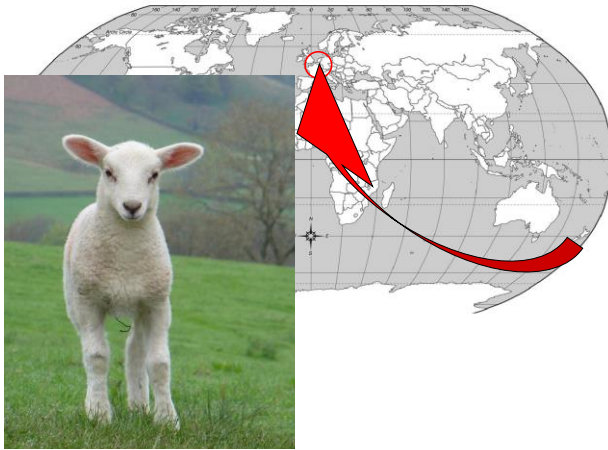



Gigot d'agneau avec os
origine: Nouvelle-Zélande et Espagne

€119⁹⁹
€6⁵⁹

Le kilo

2 Valable dans tous les Carrefour Hyper du 16 décembre au 26 décembre 09



Râble de lièvre
origine: Amérique du sud

€22⁹⁹
Gain: €7

€15⁴⁹



Râble de lièvre
origine: Amérique du sud

€22⁹⁹
Gain: €7

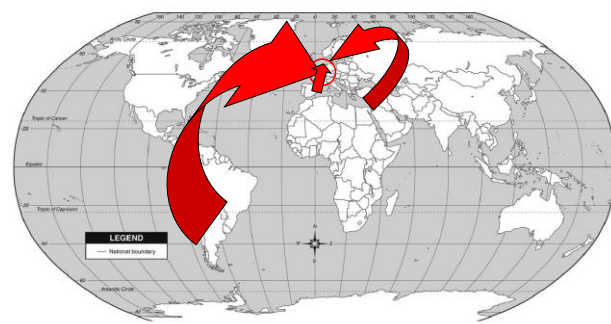
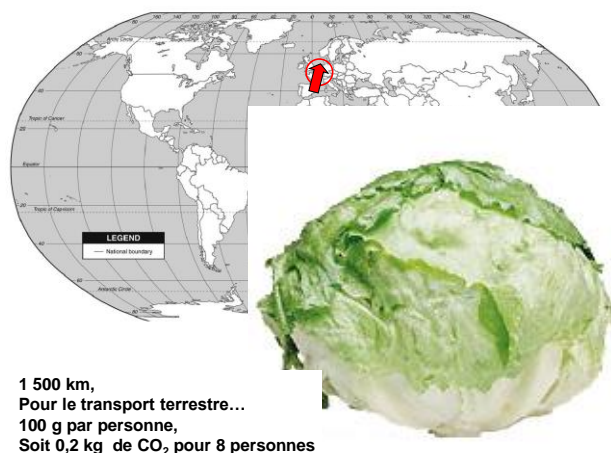
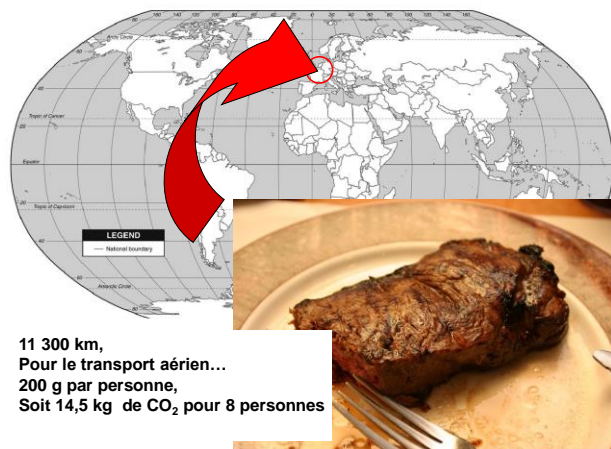
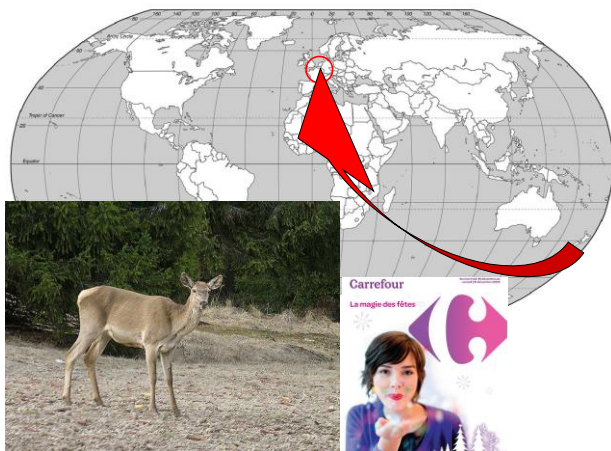
€15⁴⁹

Carrefour

La magie des fêtes



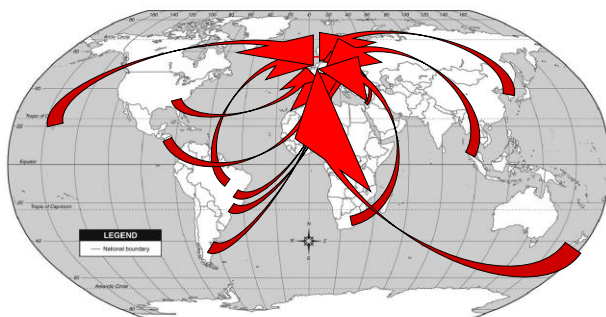




PLAT PRINCIPAL :
16 000 km cumulés: 16,9 kg de CO₂

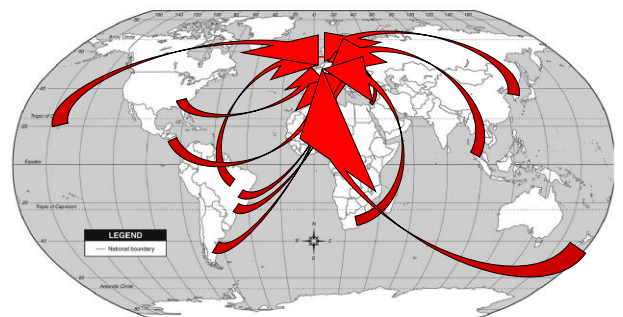
Dessert

Salade de fruits



SALADE DE FRUITS

DISTANCE TOTALE CUMULEE ENTRE PRODUCTION ET ASSIETTE :
117000 km = 3 x le tour du monde



SALADE DE FRUITS

CHAQUE FRUIT = 100 g, soit une salade de fruits de 1200 g :
9,3 kg de CO₂



Entrée - plat - dessert:
5,4 kg de nourriture

ou

163 000 km

ou

38,2 kg de CO₂

Entrée - plat - dessert:
5,4 kg de nourriture

ou

38,2 kg de CO₂

Soit les émissions de CO₂
d'une voiture sur 210 km,
soit 13 litres d'essence



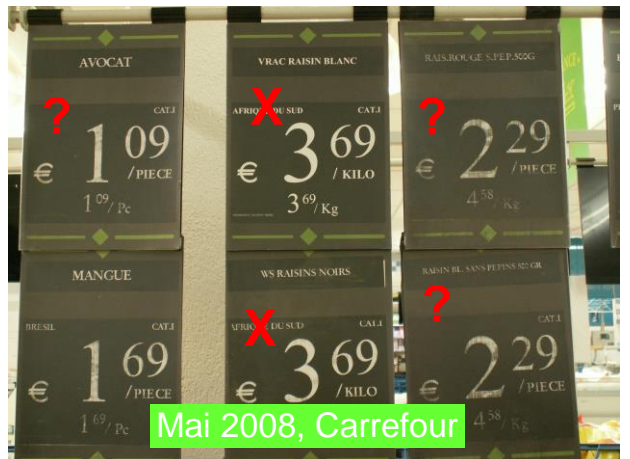
Ozer, 2013

Ozer, 2013

IDEE N°1
Imposer aux distributeurs une information correcte sur la provenance des aliments... (Obligation légale!!!)



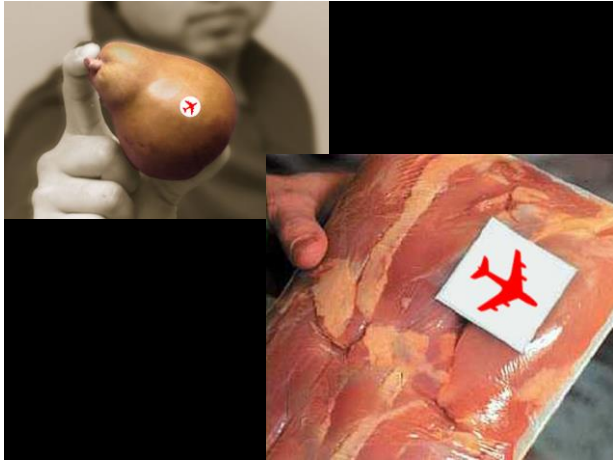
Août 2007, Delhaize



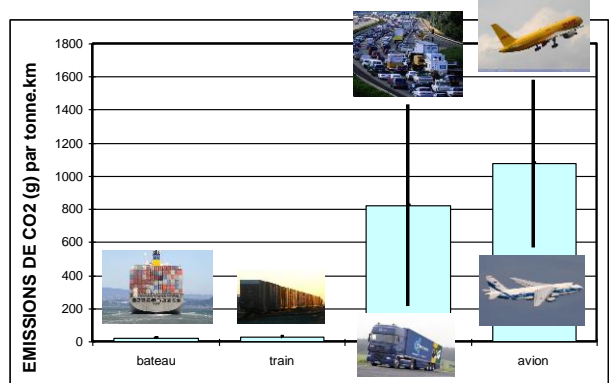


IDEE N°2
 ... et pourquoi pas
 aussi un logo
 indiquant le mode de
 transport utilisé!





Coût CO₂ des transports



En Suisse... Cela évolue...



IDEE N°3
Communiquer sur le cliché
« consommer des produits du Sud, c'est toujours bien! »

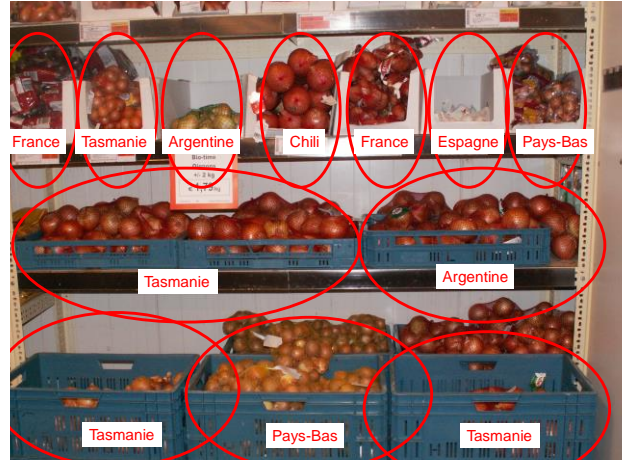
Calendrier de la saisonnalité des légumes

Légume	J	F	M	A	M	J	J	A	S	O	N	D
Aubergines												
Batât												
Balthraives												
Biscuits												
Carottes												
Câblés branche												
Câblés ravas												
Choux												
Choux Bruxelles												
Choux fleurs												
Choux rouges												
Concombres												
Courgette												
Endive												
Épinard												
Fenouil												
Haricots verts												
Porreaux												
Latvise à couper												
Latvise iceberg												
Latvise pommée												
Latvise romaine												
Mais												
oignon												

■ Légume/ fruit frais
 ■ Légume/ fruit de gante

Source : CRIOC 2004





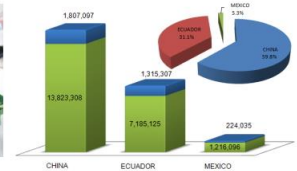
Y en Ecuador ?

Importación de Brocoli Fresco a Japón en el 2009.

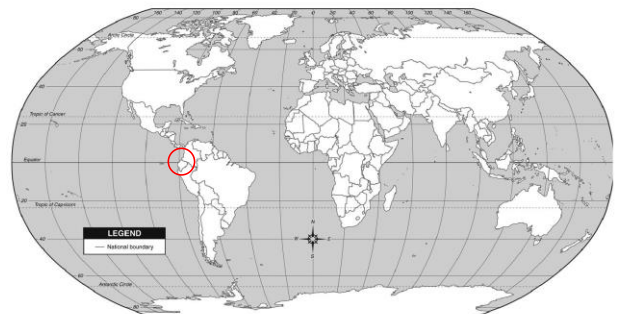
En el 2009, el Brocoli Fresco procedente de China lidera en las importaciones japonesas, el cual representa el 69.8% del total, seguida de las de Ecuador con el 31.1%, el tercer lugar lo ocupa México con el 5.3%. El resto otros países.

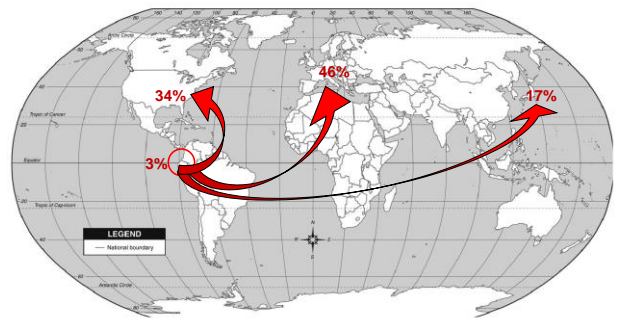
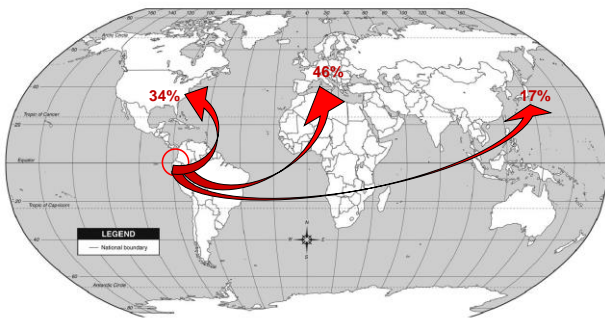
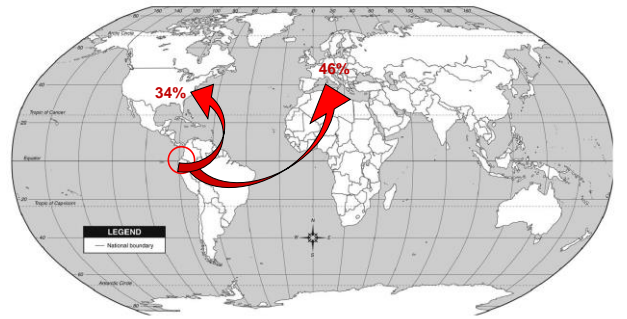
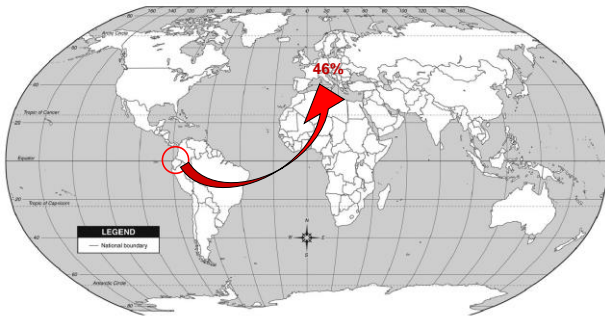
Nota: Las importaciones para este producto resultó un incremento en volumen del 1.5%, y un decremento del 3.9% en valor en Yenes, con respecto al año anterior 2008.

BROCOLI FRESCO	2009		2008	
	VOLUMEN (kg)	VALOR (MILES DE YENES)	VOLUMEN (kg)	VALOR (MILES DE YENES)
CHINA	13 823 308	3 357 097	13 115 367	3 315 367
ECUADOR	7 185 125	224 035	224 035	224 035
MEXICO	1 215 090	3 532 270	1 215 090	3 532 270
TOTAL	22 223 523	7 113 302	21 544 752	7 113 302

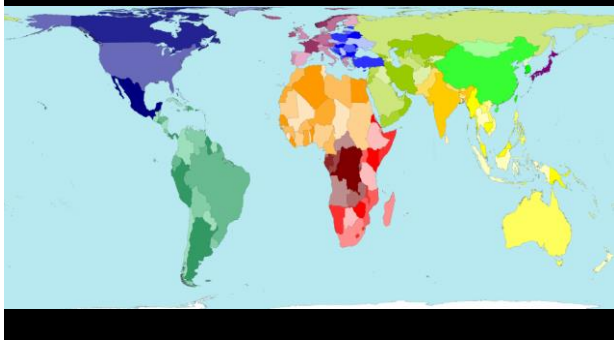


PLAN DE MEJORA COMPETITIVA - BROCOLI - Junio de 2011

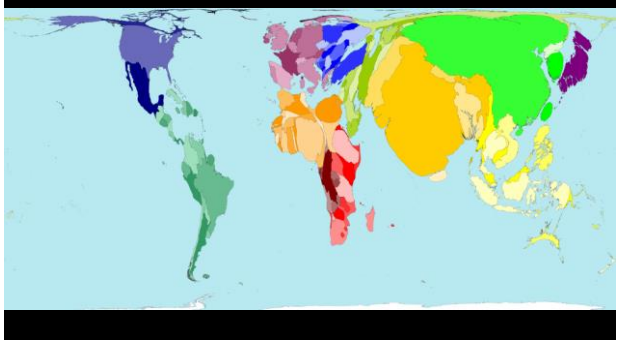




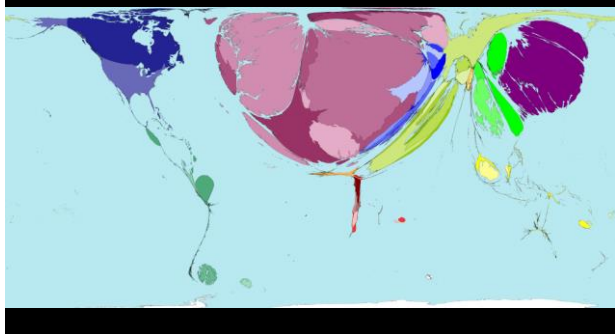
La carte mondiale



redessinée en fonction de la population (2006)



redessinée en fonction des importations de fruits



**Sommes-nous
prêts
à changer?**