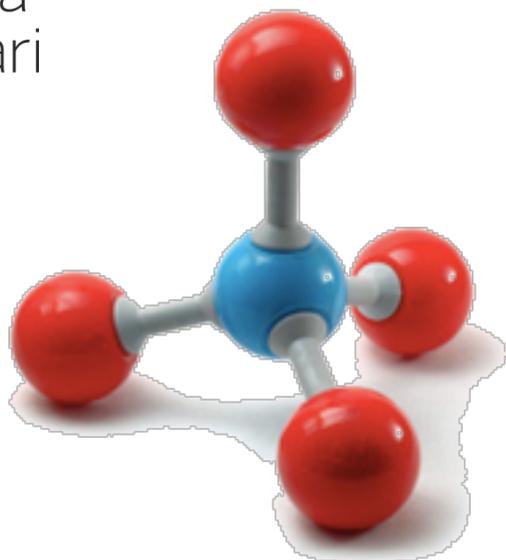




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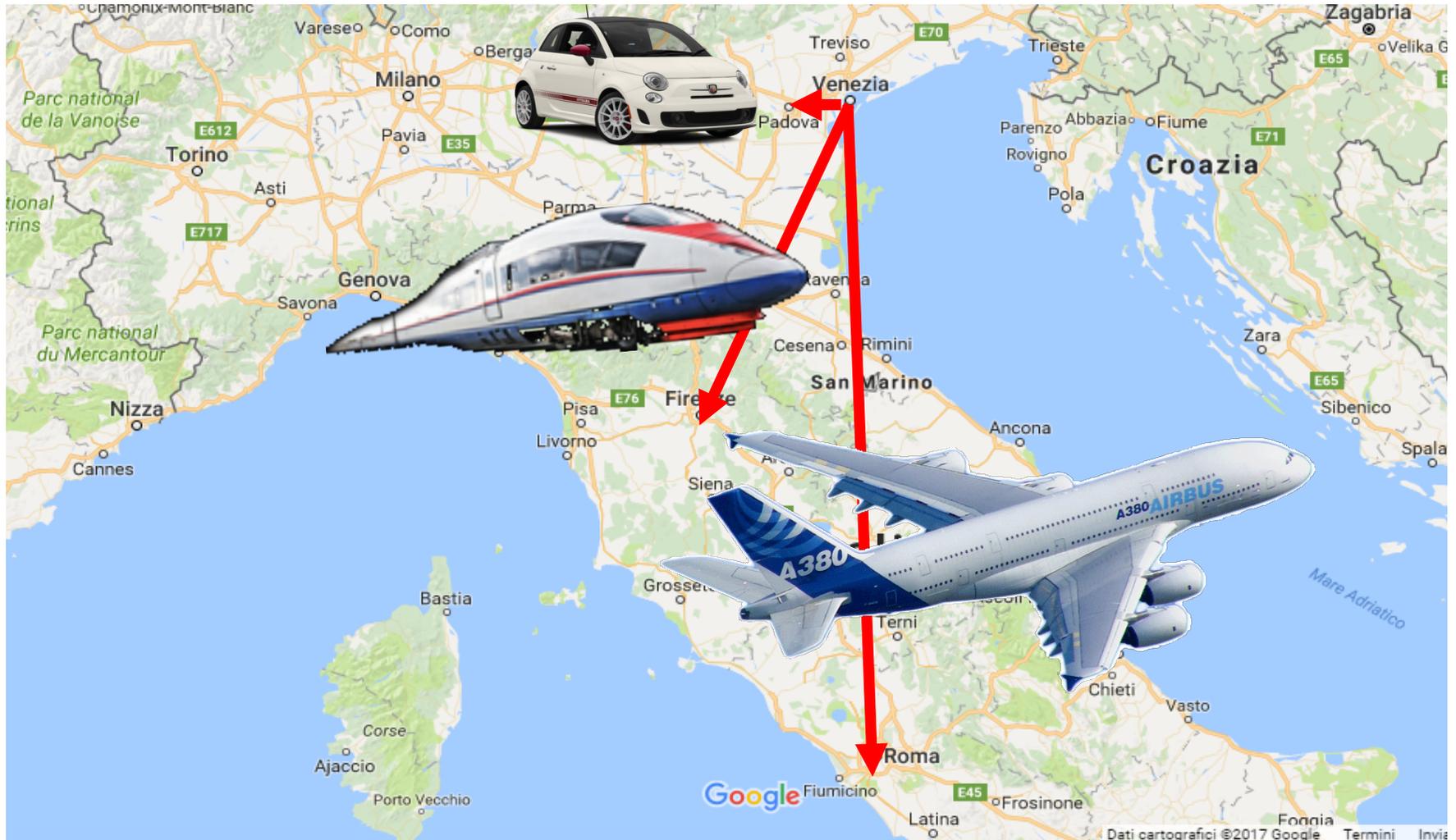
La chimica **nuova** la vita



**DSMN**
Dipartimento di Scienze Molecolari e Nanosistemi
Via Torino 155, Venezia Mestre



Una vita sempre più in movimento



...ma quanto consumiamo??

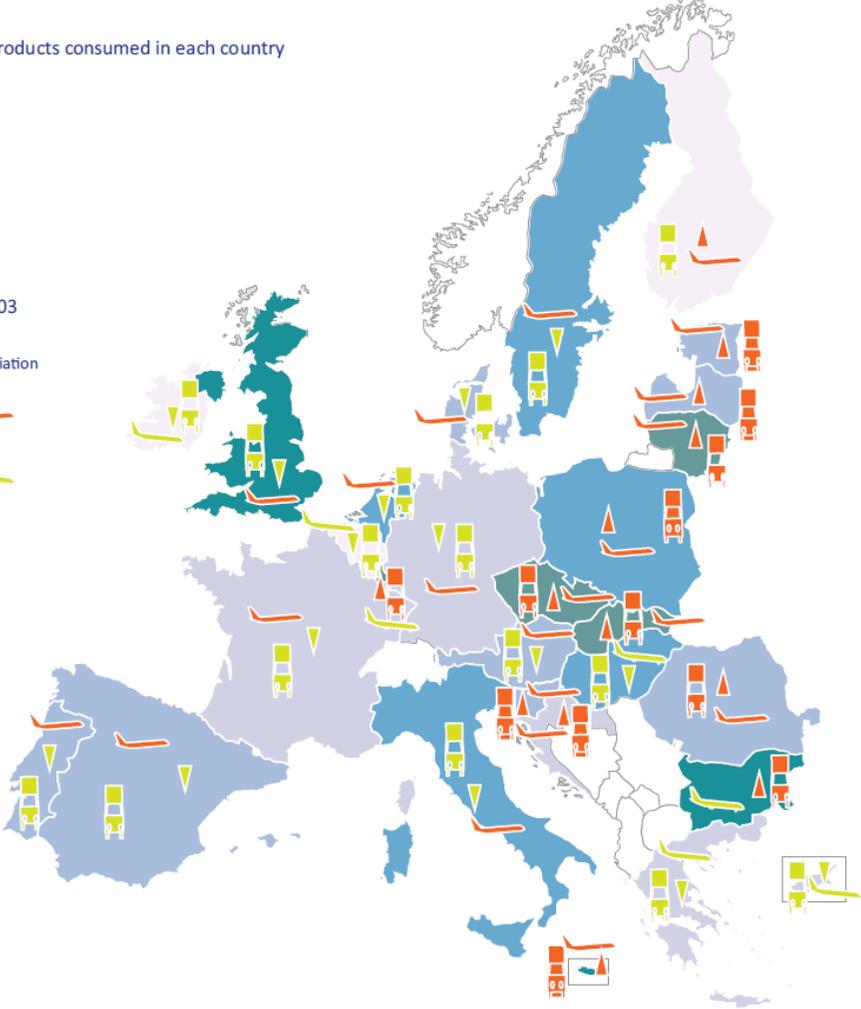
Use of oil products for transport in 2013

Oil used by transport as % of oil products consumed in each country

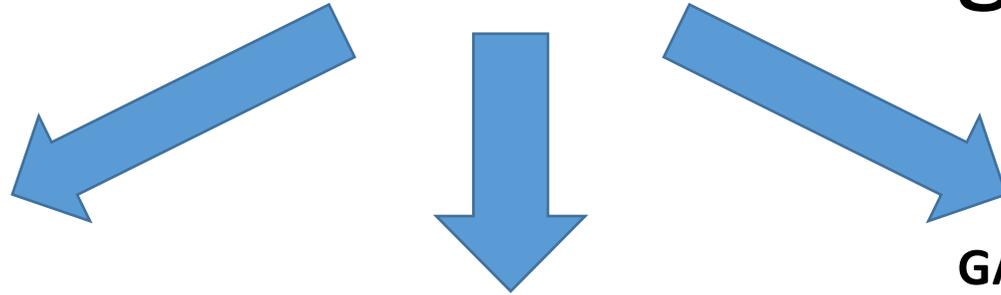
- More than 90%
- From 85% to 90%
- From 80% to 85%
- From 75% to 80%
- From 70% to 75%
- Less than 70%

Use of oil in 2013 compared to 2003

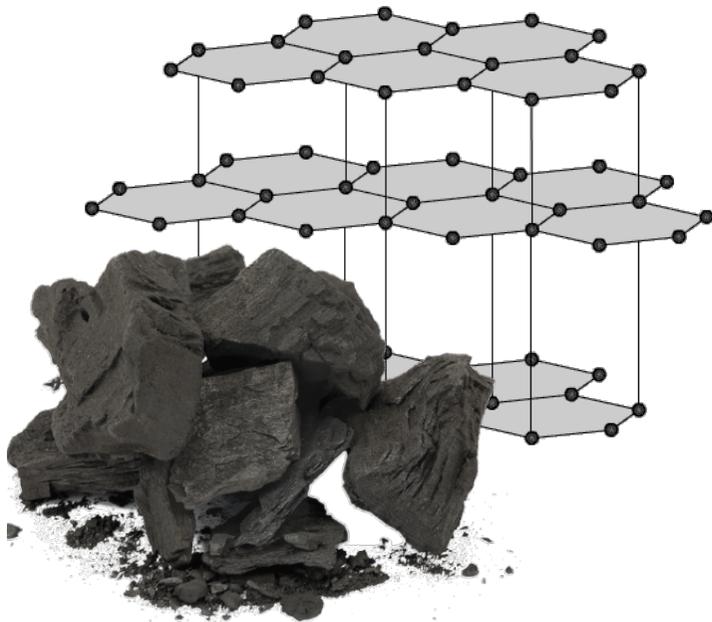
- | | Overall | Road | Aviation |
|---------------|---------|------|----------|
| has increased | ▲ | ▲ | ▲ |
| has decreased | ▼ | ▼ | ▼ |



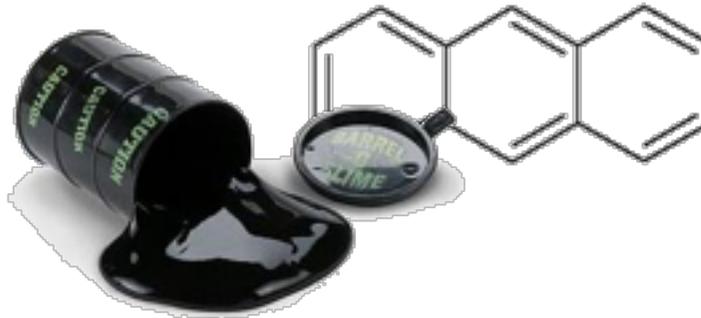
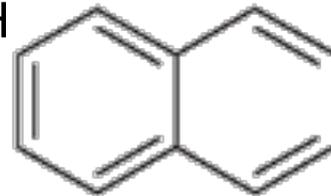
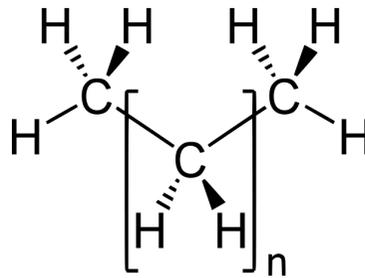
...da dove viene l'energia?



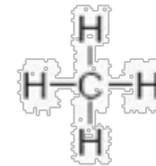
CARBONE



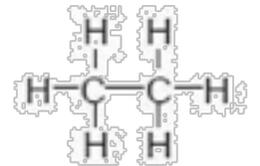
PETROLIO



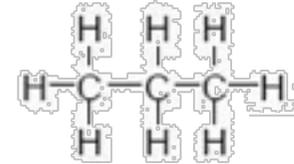
GAS NATURALE



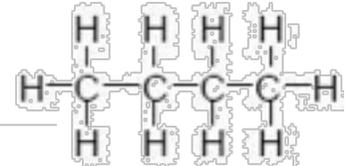
metano



etano



propano



butano

Combustione

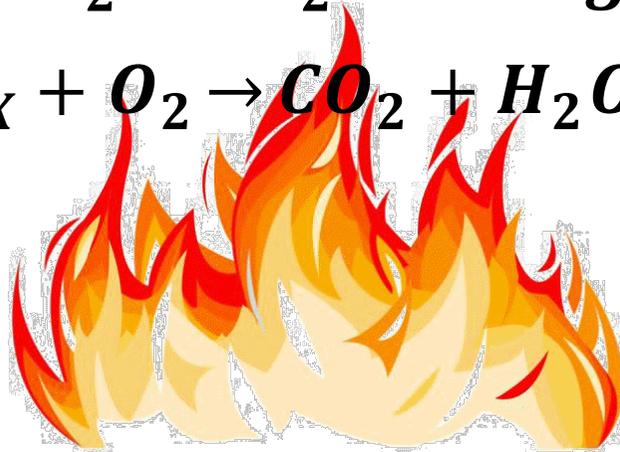
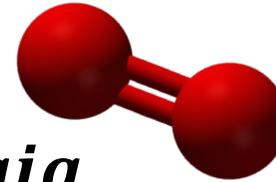
COMBUSTIBILE
Qualsiasi molecola in
grado di cedere elettroni



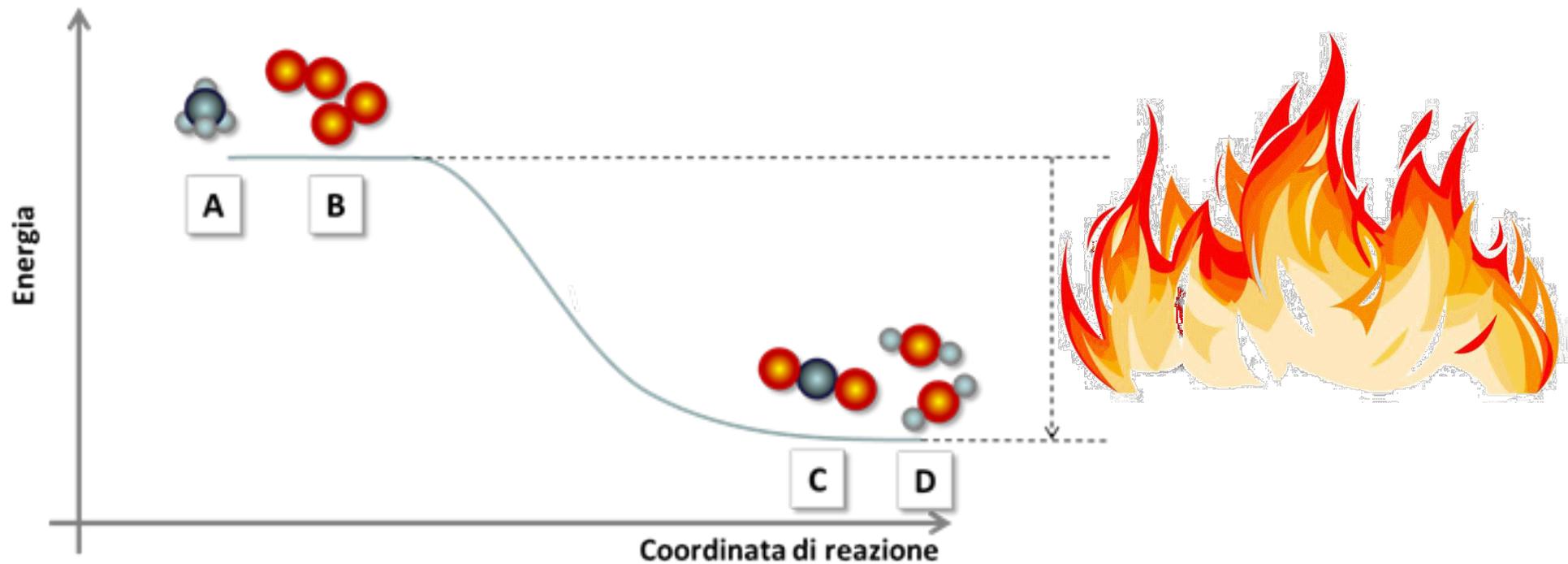
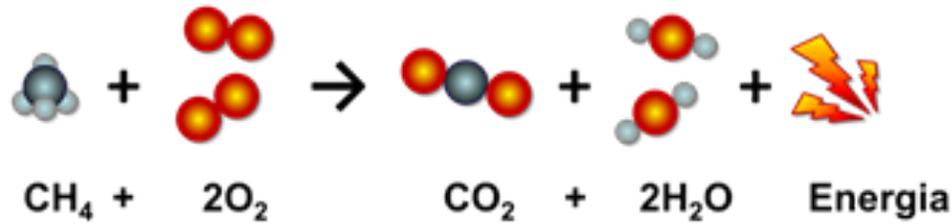
INNESCO



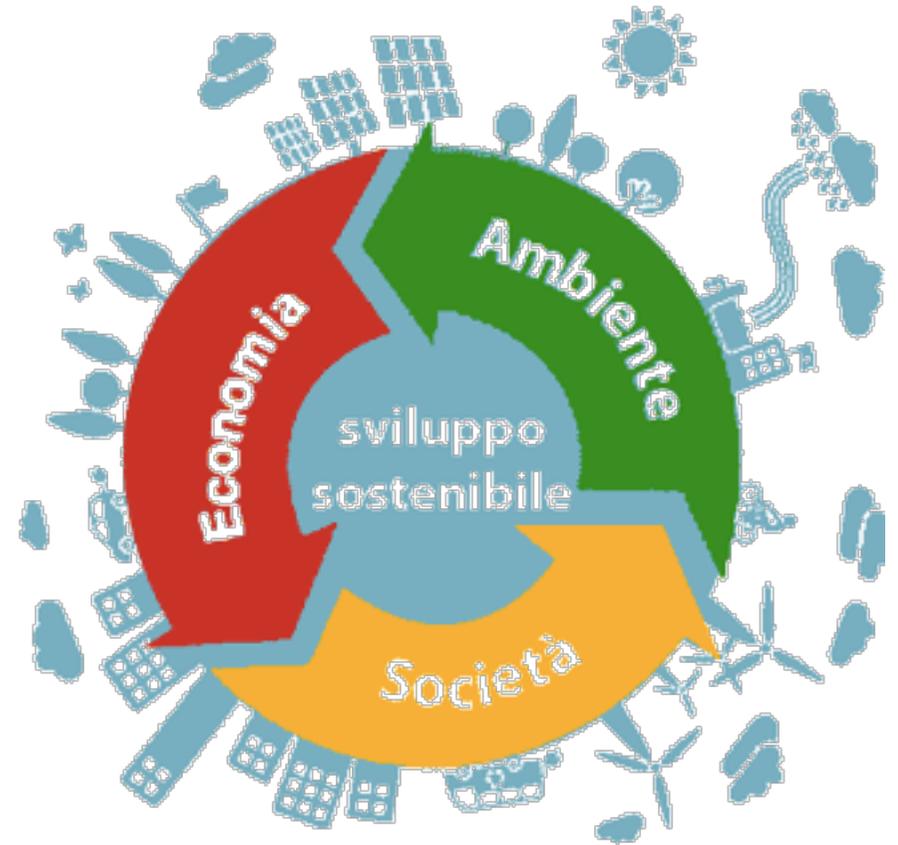
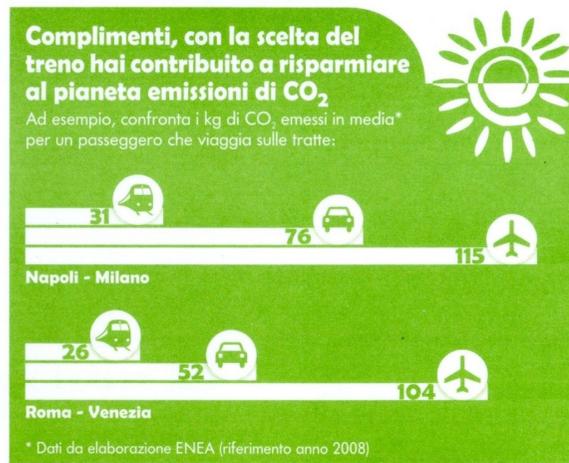
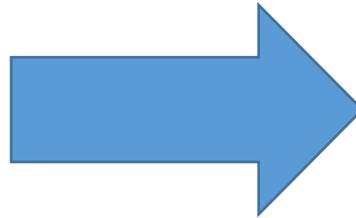
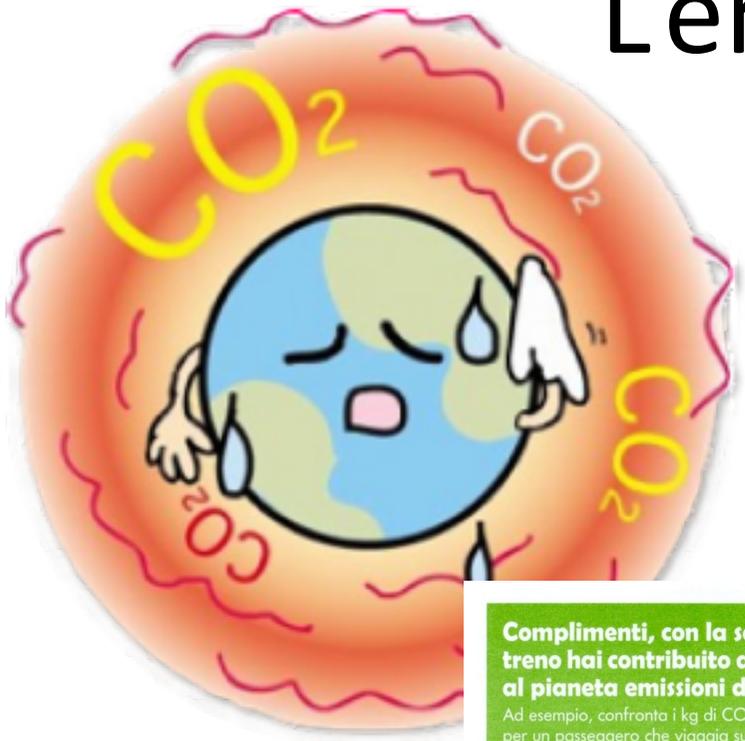
OSSIGENO
Acquista elettroni dal comburente



La chimica della combustione

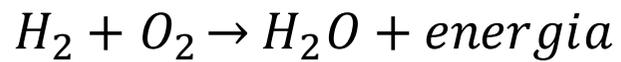


L'energia del futuro



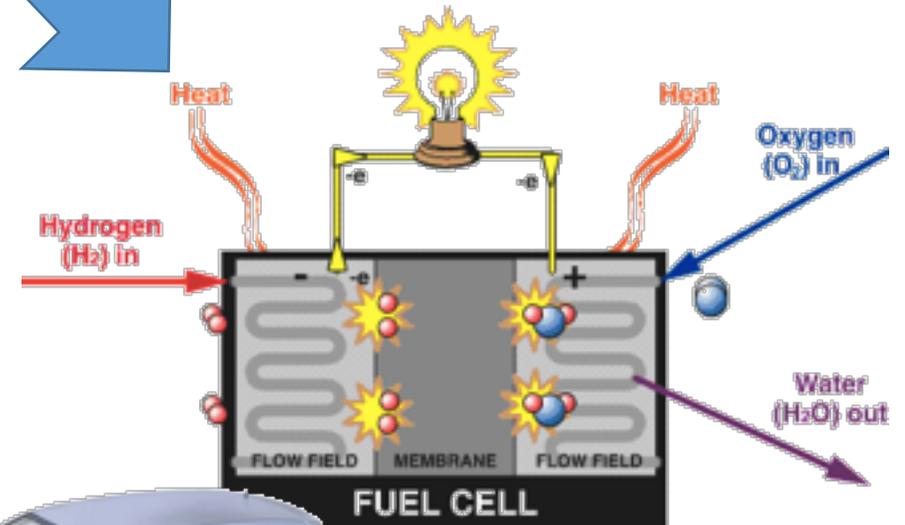
Idrogeno: il vettore energetico del futuro

COMBUSTIONE

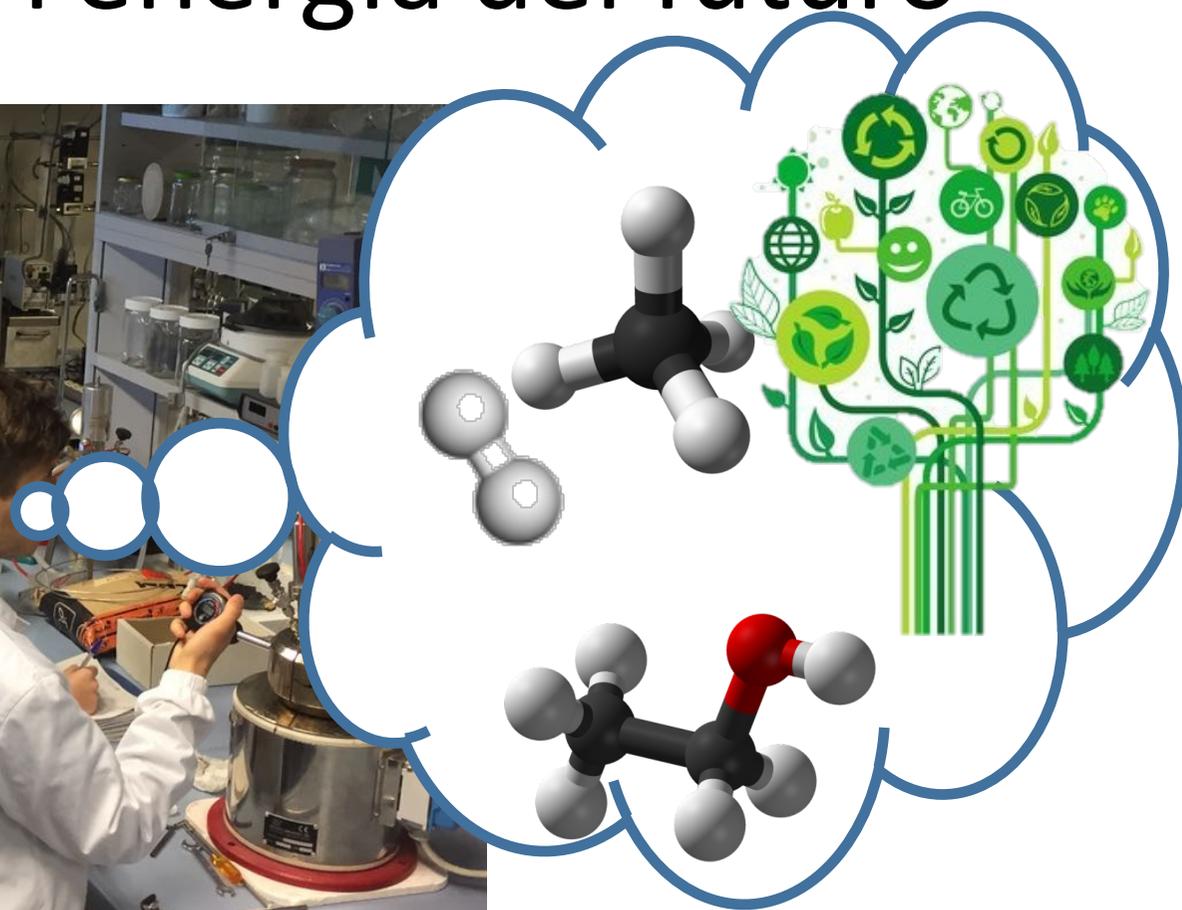


Non si produce CO₂
ma solo H₂O

FUEL CELLS



... sempre alla ricerca di nuove molecole e tecnologie per l'energia del futuro



Grazie per l'attenzione!



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