

IYL e Tecnologie basate sulla luce

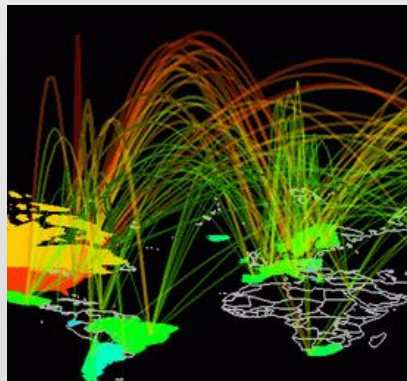


INTERNATIONAL
YEAR OF LIGHT
2015

La scienza e le applicazioni della luce creano tecnologie rivoluzionarie, spesso poco note, che migliorano direttamente la **qualità della vita**.

Le tecnologie basate sulla luce sono uno dei maggiori motori economici, capaci di rivoluzionare il XXI sec. (come l'elettronica nel XX sec.; Es. laser, LED, celle fotovoltaiche,...)

Health Communications Economy Environment Social



2015 Celebra i maggiori anniversari

1015 Ibn Al Haythem *Trattato di Ottica*



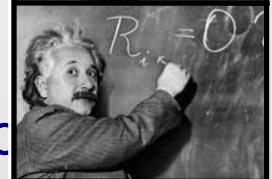
1815 Fresnel e la natura ondulatoria della luce



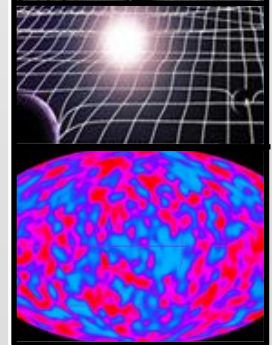
1865 Maxwell e le onde elettromagnetiche



1915 Relatività generale – la luce nello spazio-tempo



1965 Radiazione cosmica di fondo; Charles Kao e la tecnologia a fibre ottiche (Premio Nobel 2009)



I Premi Nobel 2014 per la Fisica



The Nobel Prize in Physics 2014

Isamu Akasaki, Hiroshi Amano, Shuji Nakamura



*"for the invention of **efficient blue light-emitting diodes** which has enabled **bright and energy-saving white light sources**"*

" ... They succeeded where everyone else had failed. Akasaki worked together with Amano at the University of Nagoya, while Nakamura was employed at Nichia Chemicals, a small company in Tokushima. Their inventions were revolutionary. Incandescent light bulbs lit the 20th century; the 21st century will be lit by LED lamps....

LED lamp holds great promise for **increasing the quality of life for over 1.5 billion people around the world who lack access to electricity grids**: due to low power requirements it can be powered by cheap local solar power."