

LISBOA 2010
MAY 25/28
16th World Meeting

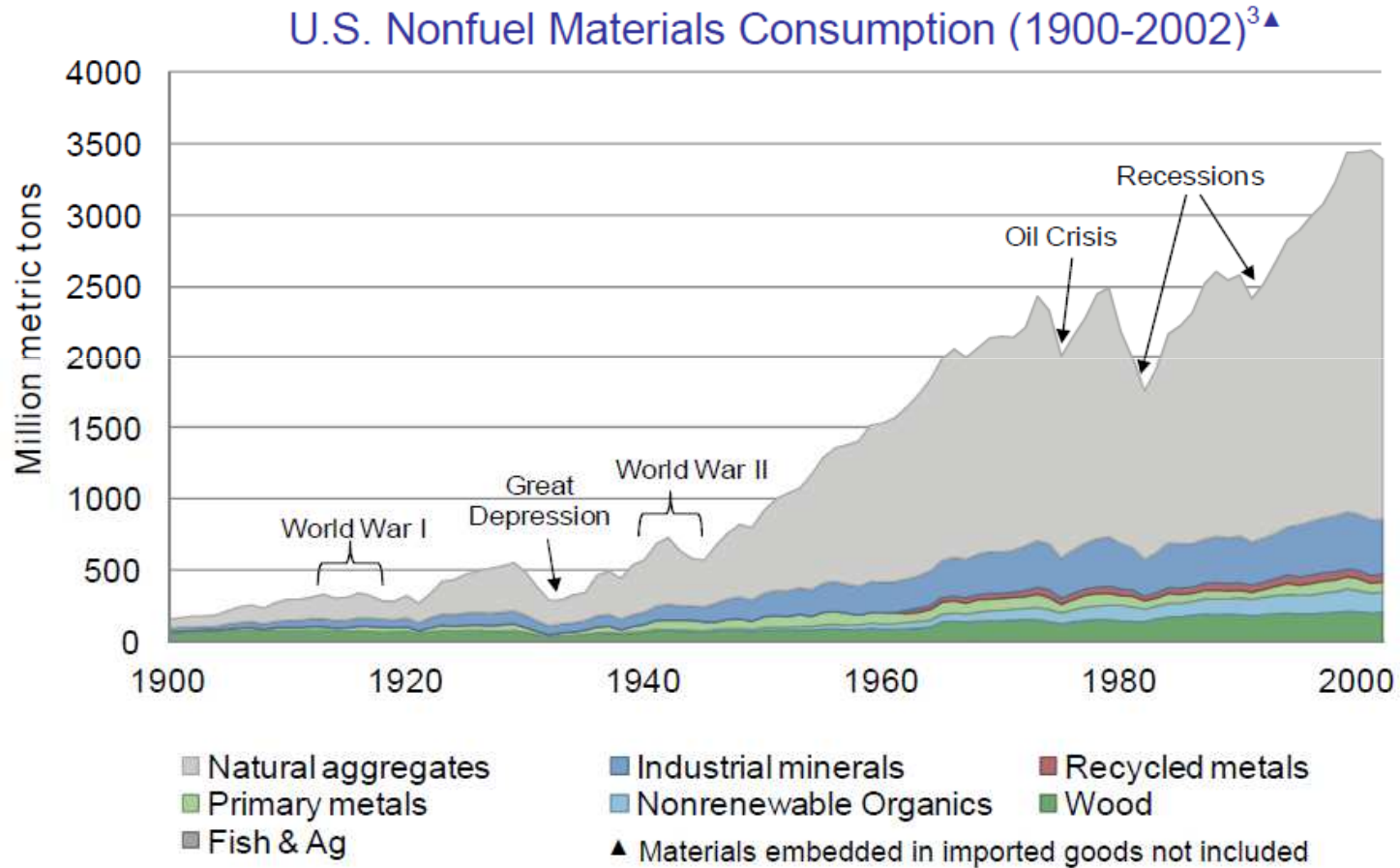
Theme 3 Workshop
Use of Byproducts for Sustainable Roads

President: Jeff Reed (IREF/VSS)
Moderator: Steve Muench (UW)
Convenor: Susana Reis (EP)



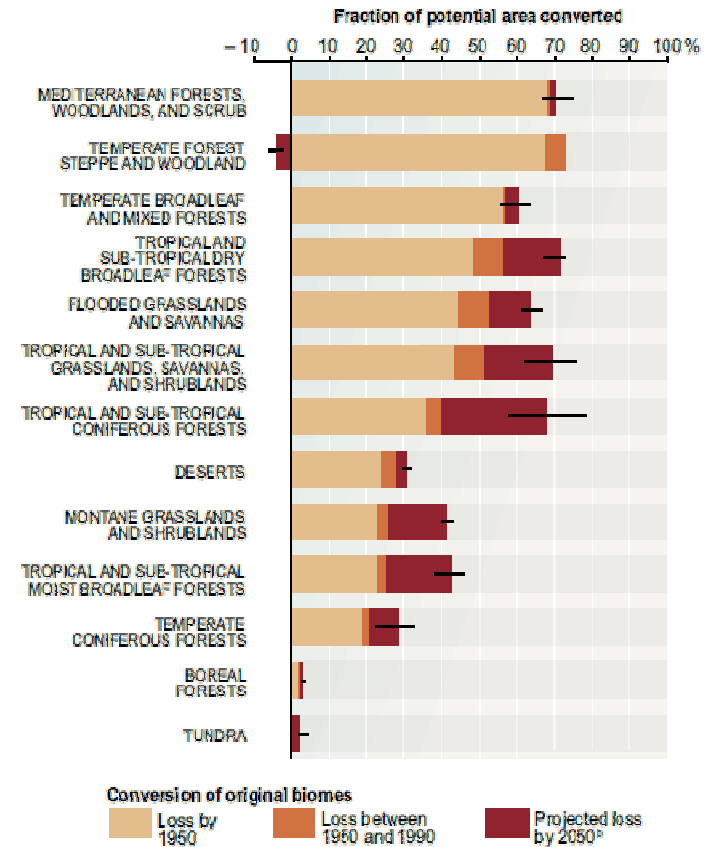
www.irf2010.com

As humans, we consume a great amount of material.



This has serious and lasting consequences.

Conversion of Terrestrial Biomes -Millennium Ecosystem Assessment (2005)



^a A biome is the largest unit of ecological classification that is convenient to recognize below the entire globe, such as temperate broadleaf forests or montane grasslands. A biome is a widely used ecological categorization, and because considerable ecological data have been reported and modeling undertaken using this categorization, some information in this assessment can only be reported based on biomes. Whenever possible, however, the MA reports information using 10 socioecological systems, such as forest, cultivated, coastal, and marine, because these correspond to the regions of responsibility of different government ministries and because they are the categories used within the Convention on Biological Diversity.

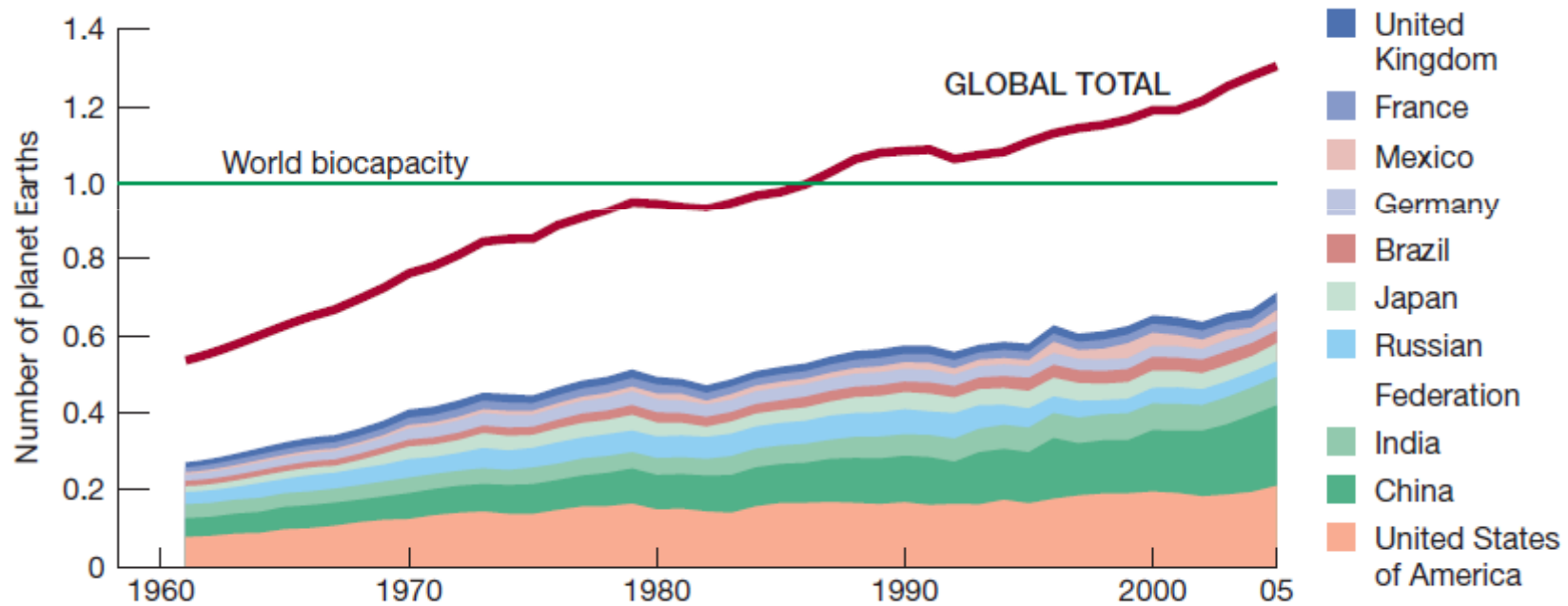
^b According to the four MA scenarios, for 2050 projections, the average value of the projections under the four scenarios is plotted and the error bars (black lines) represent the range of values from the different scenarios.

Source: Millennium Ecosystem Assessment



Our current path is not sustainable.

Ecological Footprint by Country (1961-2005)



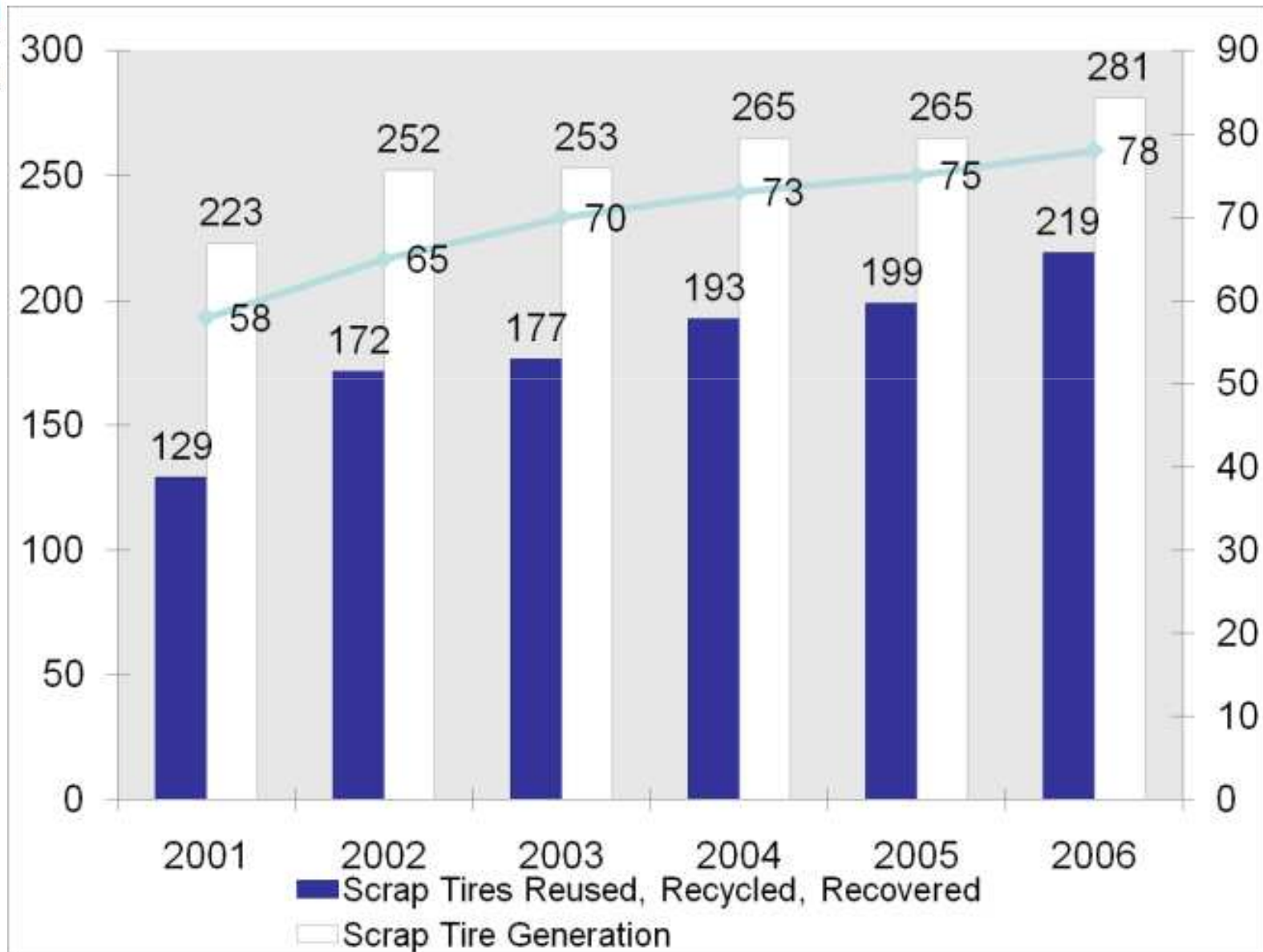
From:

Hails, ed. (2008). *Living Plant Report 2008*. World Wildlife Fund International, Institute of Zoology, Global Footprint Network, and Twente Water Center.

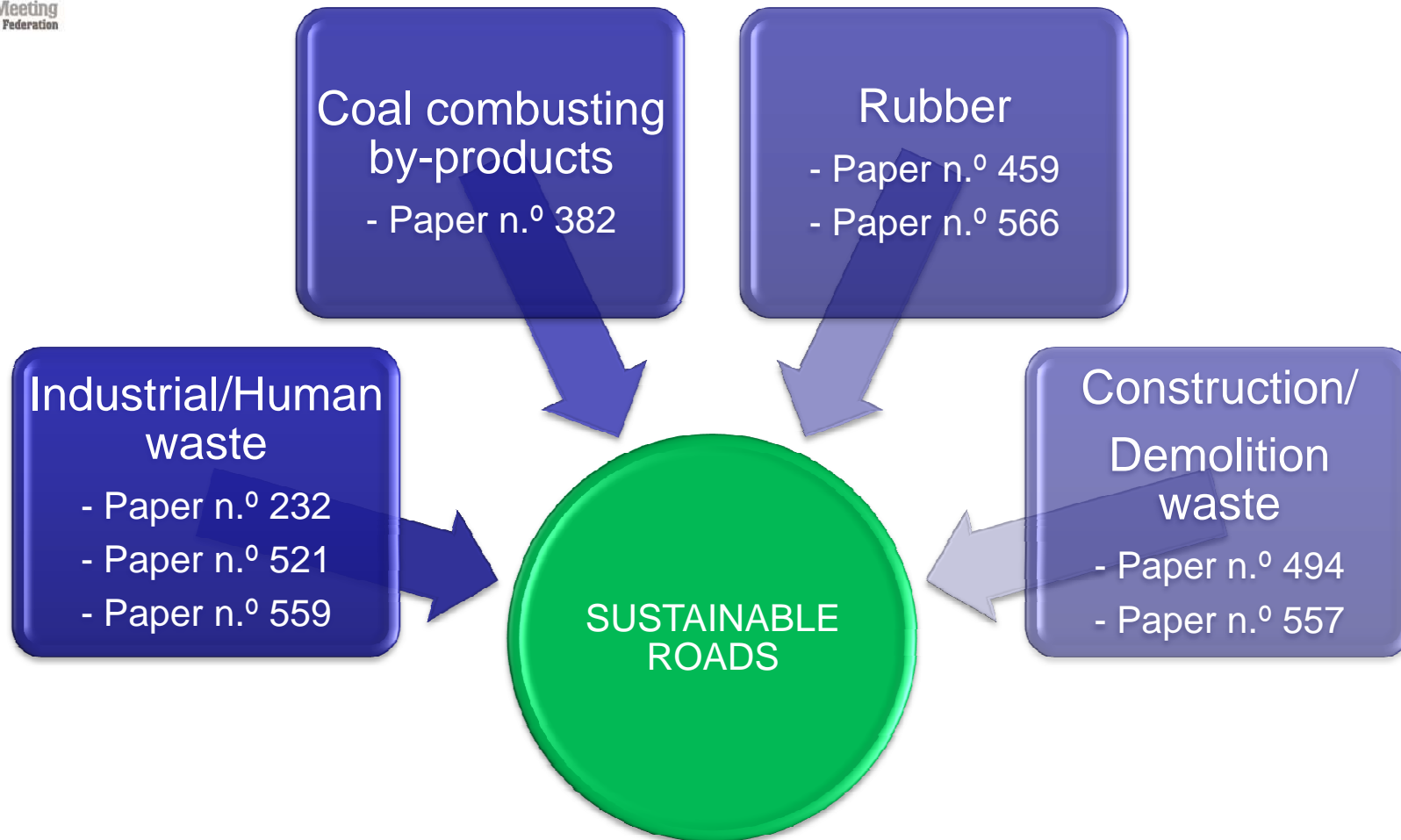


Sharing the road
16th
World Meeting
International Road Federation

U.S. Scrap Tire Markets



Workshop Theme n.º 3 USE OF BY-PRODUCTS





Presentations for this Session

Nº 232 - ROADS SUSTAINABILITY: USING RECYCLED MATERIALS ON ROADSIDE EQUIPMENT

Tomé CANAS, Brisa, Portugal

Nº 382 - IN-SITU RECLAMATION OF FLEXIBLE PAVEMENTS USING COAL COMBUSTION BYPRODUCTS

William WOLFE, Ohio State University, Columbus, Ohio, U.S.A.

Nº 459 - SUSTAINABLE ROADS WITH ASPHALT RUBBER

Jorge SOUSA, Consulpav, U.S.A.

Nº 494 - THE USE OF MILLED BITUMINOUS MATERIALS IN CAPPING

Eduardo Fung, Coba Portugal

Nº 521 - BUILDING ROADS USING WASTES – A MAJOR APPROACH TOWARDS SUSTAINABILITY

Javier AINCHIL LAVIN, FCC Construction, Spain

Nº 566 - BITUMEN MODIFIED WITH CRUMB RUBBER

Daniel ANDALUZ GARCIA, Probisa, tecnologia y Construcción S.A., Spain

Nº 557 - CONCRETE WITH RECYCLED AGGREGATES FOR ROADS

Gustavo Luis BOLLA, Universidad Tecnológica Nacional, Argentina

Nº 559 – ALT. SYS. FOR SOIL STABILIZATION FOR IMPROVEMENT OF SOIL PROPERTIES USED IN EMBANKMENTS

Ignacio MOCHÓN LÓPEZ, Gestión de Infraestructuras de Andalucía, Spain