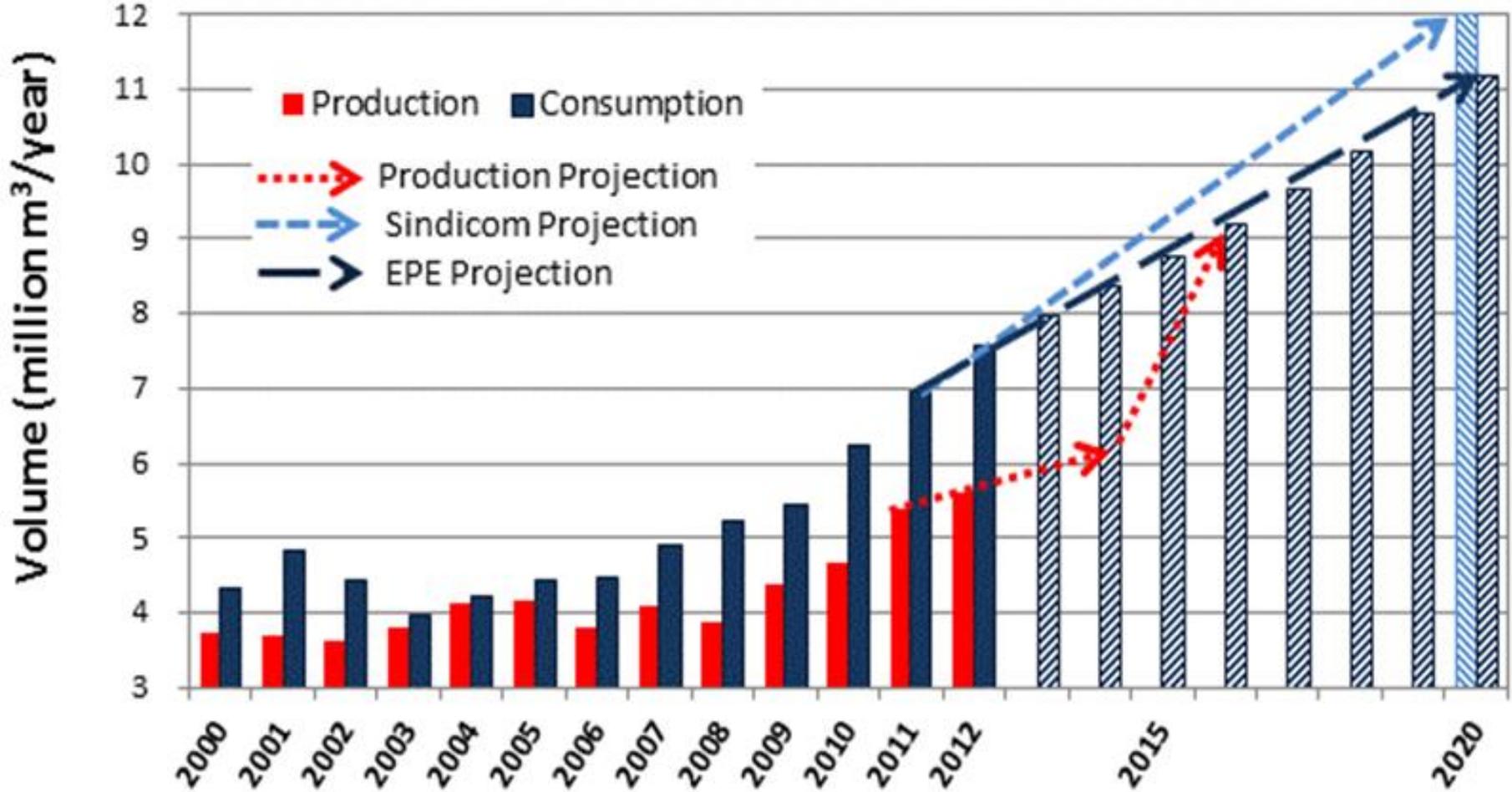


Sustainable Alternative Fuels

The Brazilian experience



FUEL BURN FORECAST

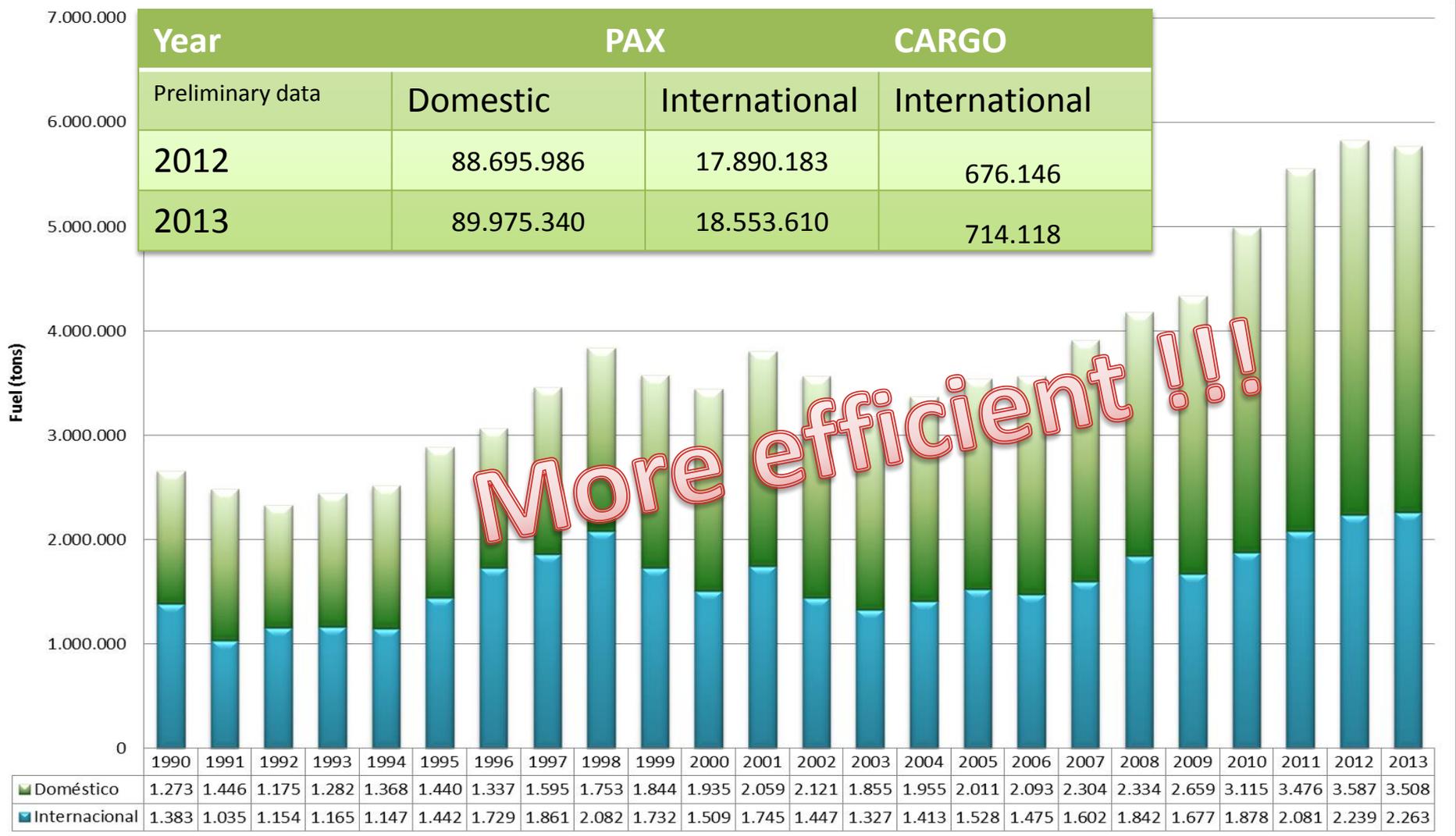


Source: SABB Report, 2013.





FUEL BURN EVOLUTION



More efficient!!!

Source: ANAC modeling system
MIATA



- **SABB Sustainable Aviation Biofuel Brazil Workshops**
 - Initiative Boeing, Embraer, UNICAMP University of Campinas and FAPESP Research Support Foundation of the State of Sao Paulo
 - Eight workshops across Brazil, including São Paulo, Rio and Brasilia, with active participation of over 30 Stakeholders
- **Results:**
 - Report *Flightpath to Aviation Biofuels in Brazil – Action Plan*
 - Foundation of the *Brazilian Biojetfuel Platform BBP*



PRIVATE SECTOR INITIATIVES



Source: BBP Presentation, 2013.





GOVERNMENT INITIATIVES



Memorandum of Understanding Brazil – US (2011)

Cooperation on biofuels for aviation development

Technology and information sharing

Regulatory Framework (June 2013)

ANP Resolution 20

Approves the usage of alternative fuels in country; (ASTM 7566, HEFA and F&T).

Brazilian Action Plan (October 2013)

Presented to ICAO during the 38th Assembly;

Description of several initiatives from the private sector.





ICAO

ENVIRONMENT

NATIONAL CIVIL AVIATION AGENCY BRAZIL - ANAC INITIATIVE

Improvement of local modeling capabilities in order to take in consideration emissions reductions by the usage of biojet fuel. Development of a LCA for sugarcane feedstock

- Objective: Foster the development and adoption of locally produced biofuel, based on existing feedstock sugarcane by providing precise information regarding the environment benefits of this particular type of renewable biofuel.





THANK YOU !

GRACIAS !

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