



*Sorghum: the safe
bet for the future*

“Food, Feed and Fuel in a Rapidly Changing World”: Conclusions of the Cape Congress

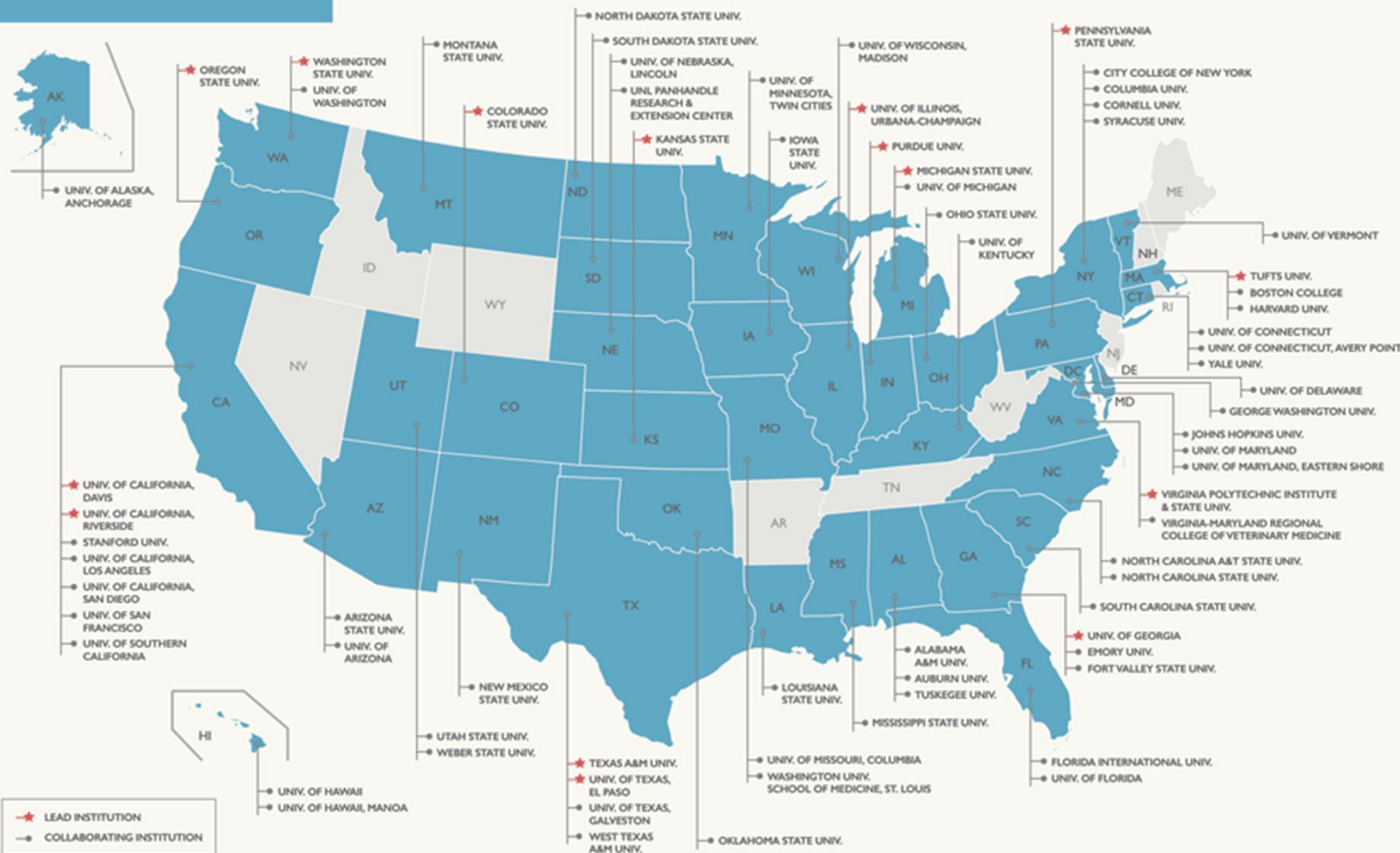
Nat Bascom

Feed the Future Innovation Lab for Collaborative Research on Sorghum and Millet

SUMMARY

- *Overview on the Feed the Future Innovation Lab for Collaborative Research on Sorghum and Millet*
- *Global Trends in Production, Consumption, and Trade*
- *Overview and Conclusions from Global Sorghum Conference*

FEED THE FUTURE WORKS WITH U.S. UNIVERSITIES TO FIGHT GLOBAL HUNGER



The Feed the Future initiative partners with universities throughout the world. This is a sampling of university partners located in the United States. For more information and updates, visit www.feedthefuture.gov or follow on Twitter @FeedtheFuture.



Applied Wheat Genomics



Post-Harvest Loss Reduction



Collaborative Research on Sorghum and Millet



Collaborative Research on Sustainable Intensification

The Sorghum and Millet Innovation Lab

Phase I & II (2013 – 2023)





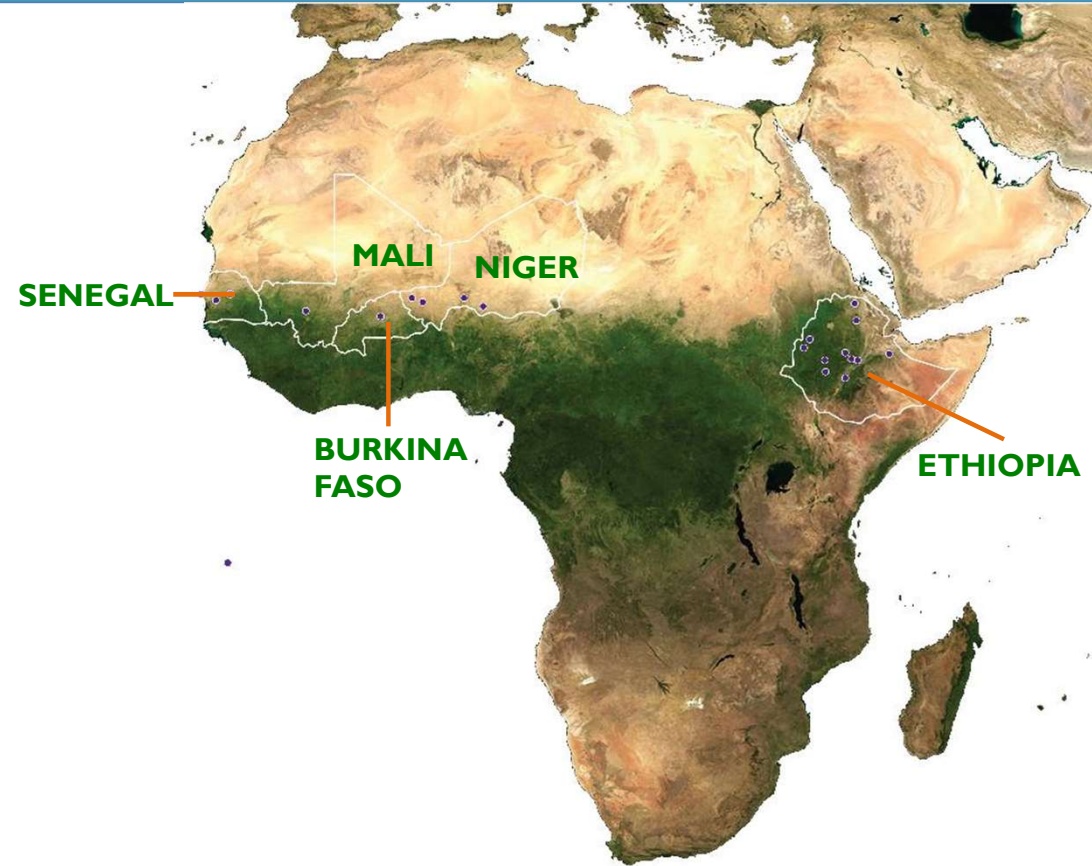


FEED THE FUTURE

The U.S. Government's Global Hunger & Food Security Initiative

Where we work

- Primary focus is across Africa's Sahel region, where sorghum and millet are staple crops that play a key role in food security
 - Senegal
 - Mali
 - Burkina Faso
 - Niger
 - Ethiopia
 - Haiti

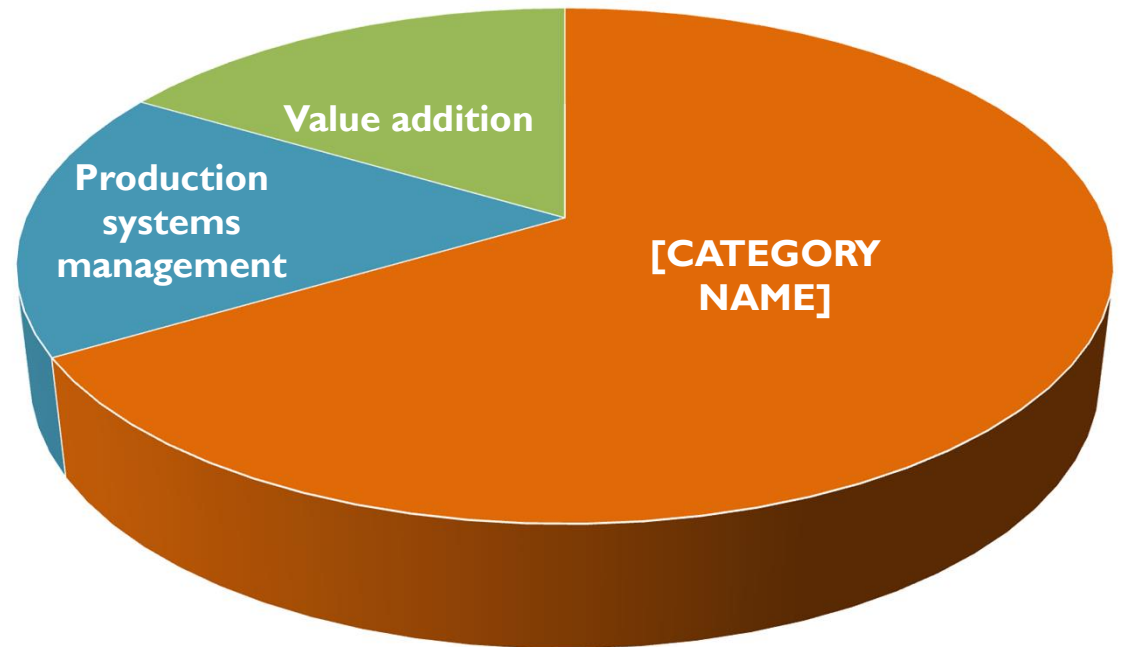


KANSAS STATE
UNIVERSITY

What we do

- Approximately \$20 million Phase I & II in research across three areas of inquiry:
 - Genetic enhancement (66.5)
 - Production systems management (17%)
 - Value addition and market access (16.5%)

Funding distribution



Our collaborators



Federation de Unions de Producteurs de Maradi -
FUMA GASKIYA (Farmer organization)

Holleta Biotechnology
Center

Sirinka Agricultural
Research Center

LSDS (Farmer
organization)



FEED THE FUTURE

The U.S. Government's Global Hunger & Food Security Initiative

SHORT-TERM TRAINING

TOTAL TRAININGS 120

TOTAL TRAINED 9750



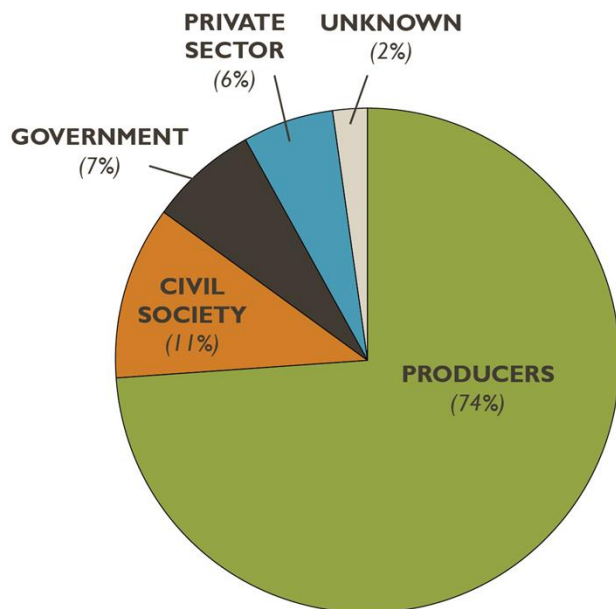
53% men



11% unknown



46% women



LONG-TERM TRAINING

TOTAL TRAINED 68



46 men



22 women

TRAINING LOCATION

49 International

19 U.S.

BACHELORS - 4
POST-DOC - 1

MASTERS - 30
AGRICULTURAL ENGINEER - 2

PH.D. - 31

WHERE'S HOME?

NIGER	16	TOGO	1
ETHIOPIA	14	COTE d'IVOIRE	1
SENEGAL	22	UGANDA	1
BURKINA FASO	3	U.S.	3
MALI	1	GERMANY	1
HAITI	1	CHINA	1
NIGERIA	3		

For more information

■ Visit us online:

- www.k-state.edu/smil
- Twitter: @Sorg_Millet_Lab

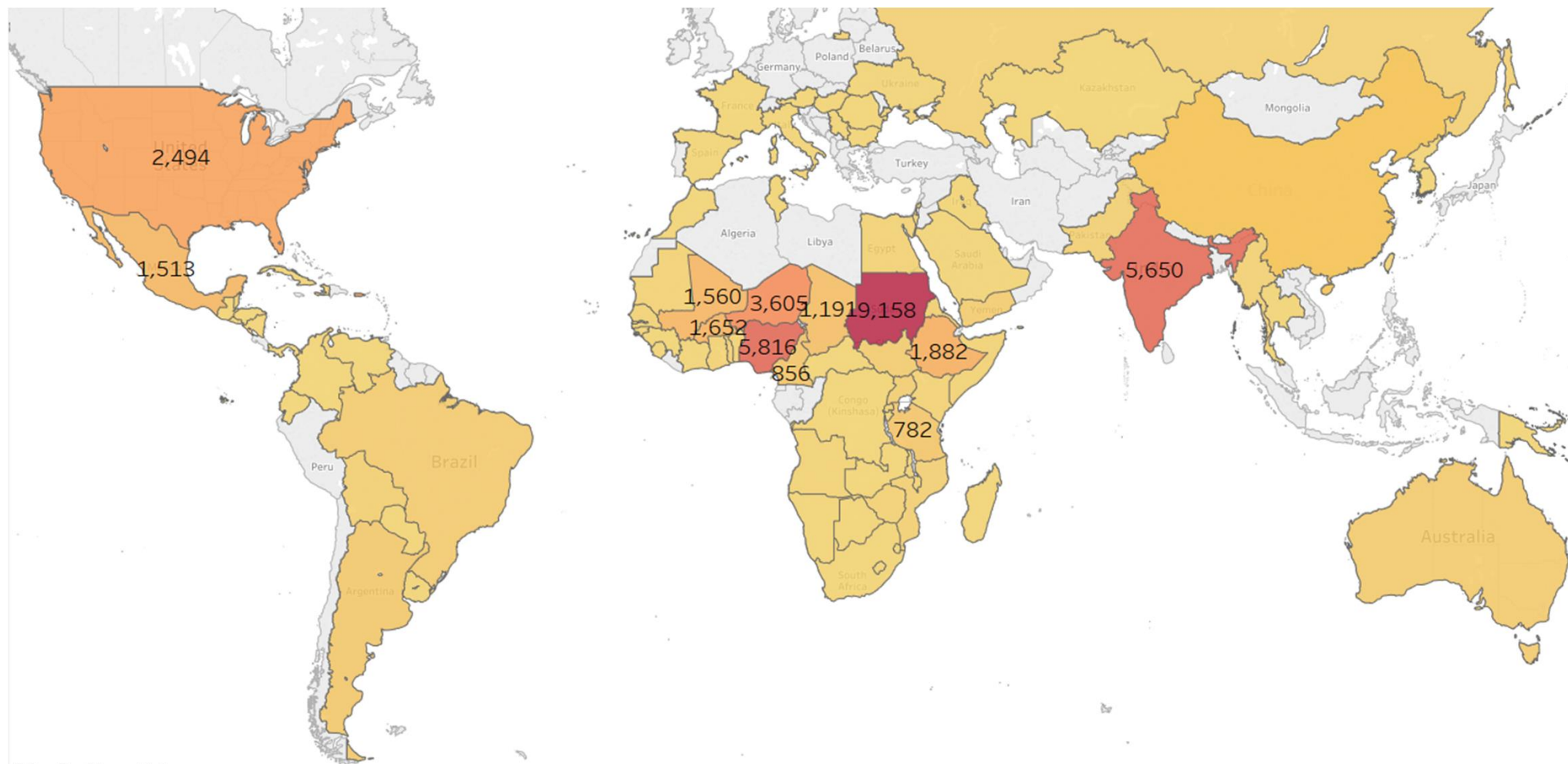


The screenshot shows the website for the Feed the Future Innovation Lab for Collaborative Research on Sorghum and Millet (SMIL). The header features the SMIL logo and the text "Collaborative Research on Sorghum and Millet". Below the header, the title "Feed the Future Innovation Lab for Collaborative Research on Sorghum and Millet" is displayed. The main content area includes three photographs: a man standing in a field of sorghum, a woman holding a baby, and a woman working with sorghum grain. A navigation menu on the left lists "Home", "About the Innovation Lab", "What we do", and "Funding opportunities". The main text reads: "Innovating science to build the crops of the future... The Feed the Future Innovation Lab for Collaborative Research in Sorghum and Millet is a consortium of cutting-edge research aimed at improving the adaptation and resilience of sorghum and pearl millet to the semi-arid climates of East and West Africa. It links U.S. and international universities and...". The footer includes the USAID logo and the text "FROM THE AMERICAN PEOPLE" and "FEED THE FUTURE".

GLOBAL TRENDS

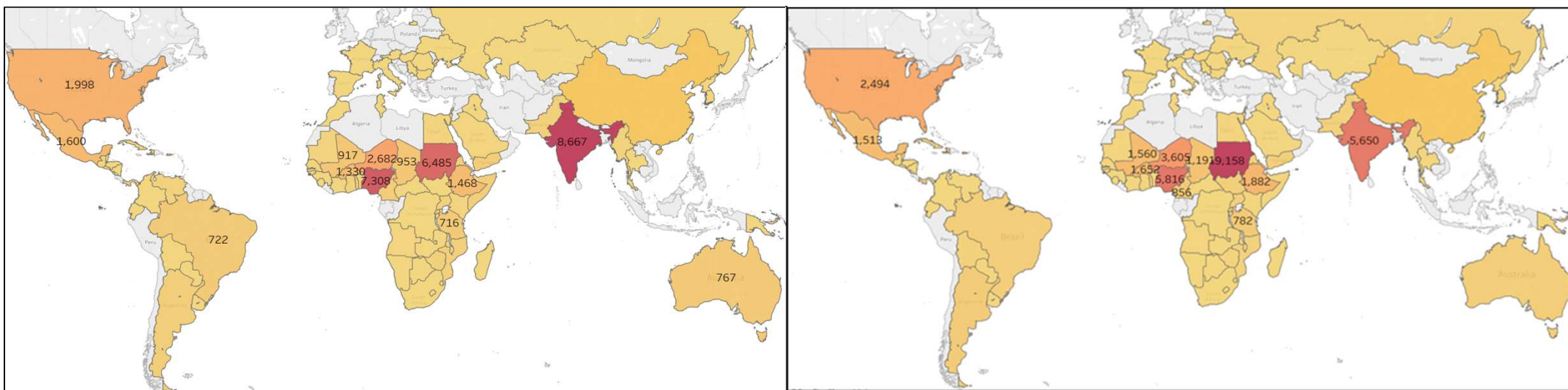
- *Harvested Area*
- *Production*
- *Consumption and Use*
- *Trade*

HARVESTED AREA ('000 HA) IN 2017

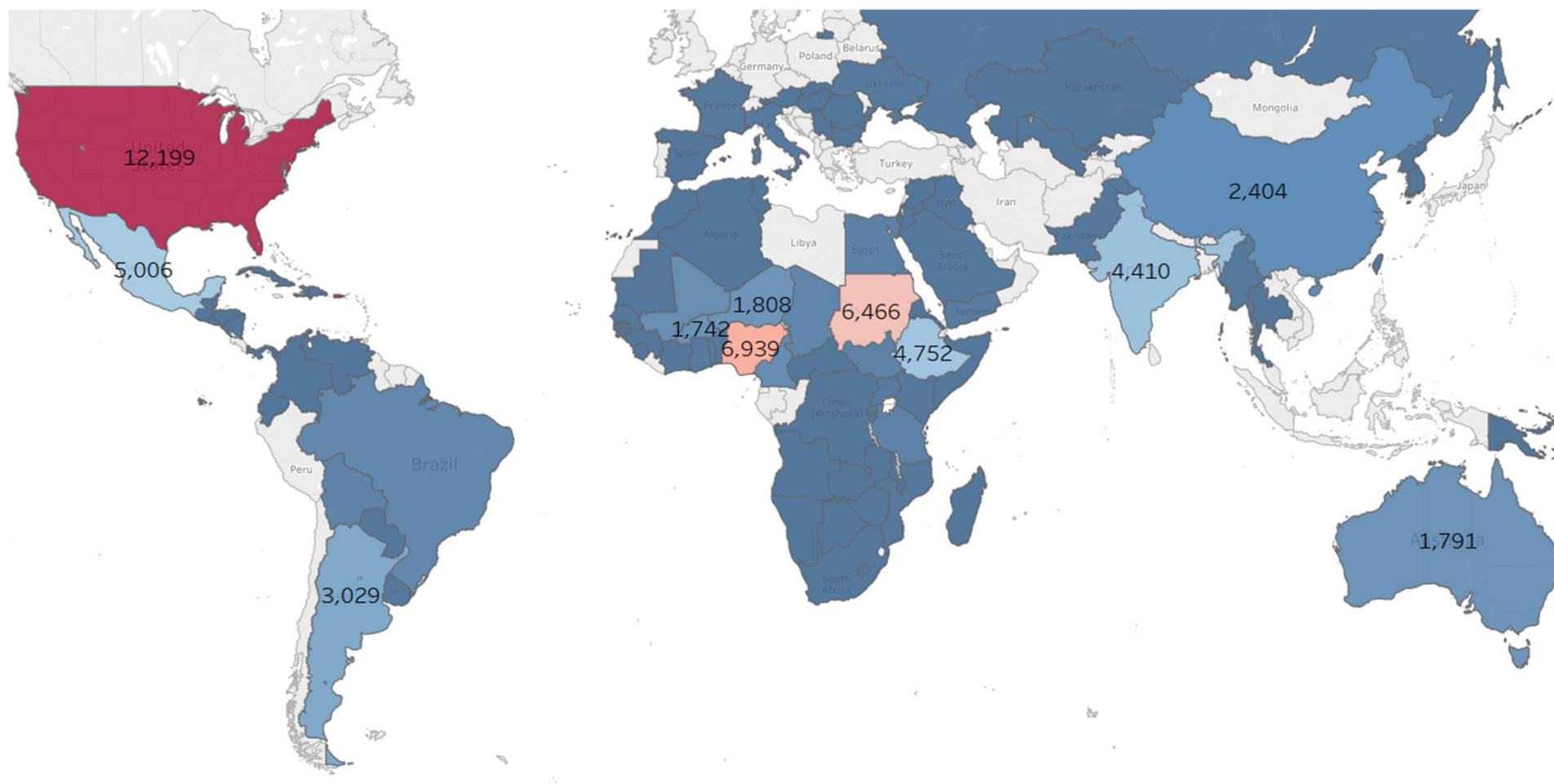


GLOBAL TRENDS – HARVESTED AREA ('000 HA)

10 Year Comparison (2007 – 2017)

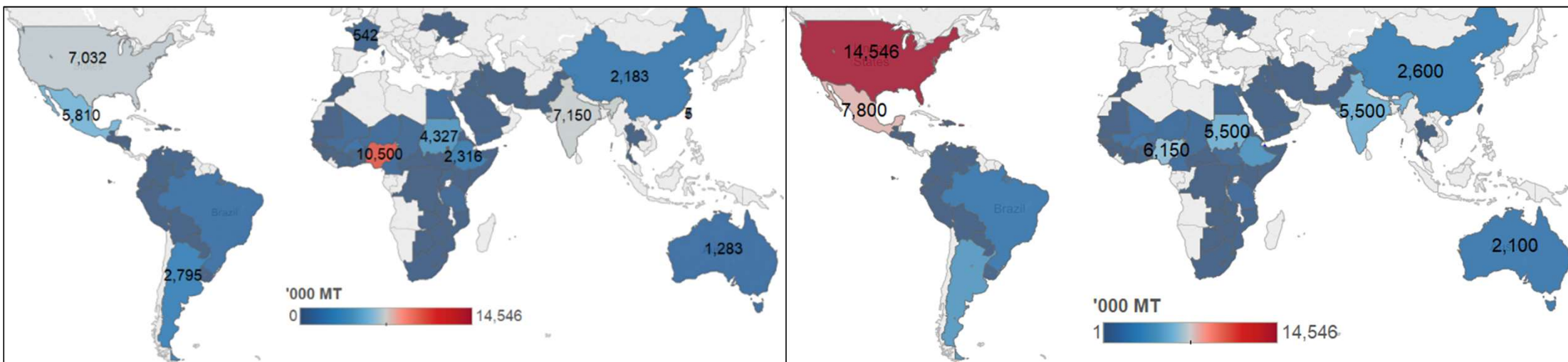


PRODUCTION ('000 MT) IN 2017



GLOBAL TRENDS – PRODUCTION ('000 MT)

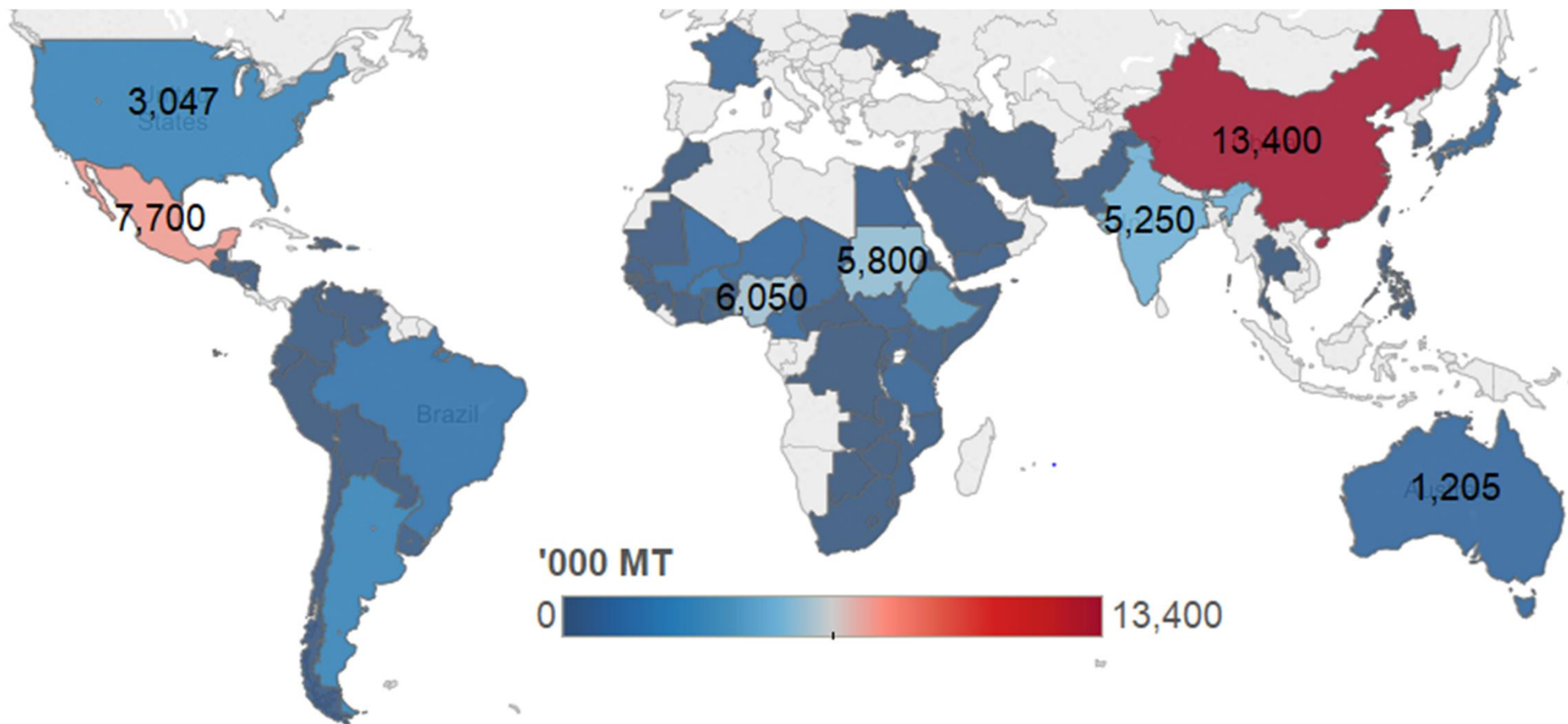
10 Year Comparison (2007 – 2017)



GLOBAL TRENDS – CONSUMPTION AND USE

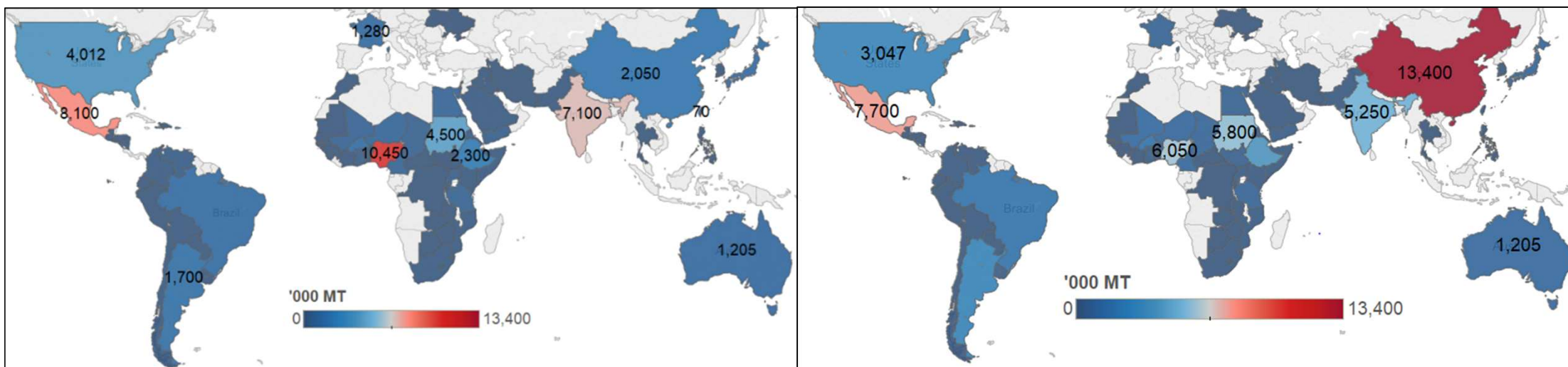


CONSUMPTION ('000 MT) IN 2016

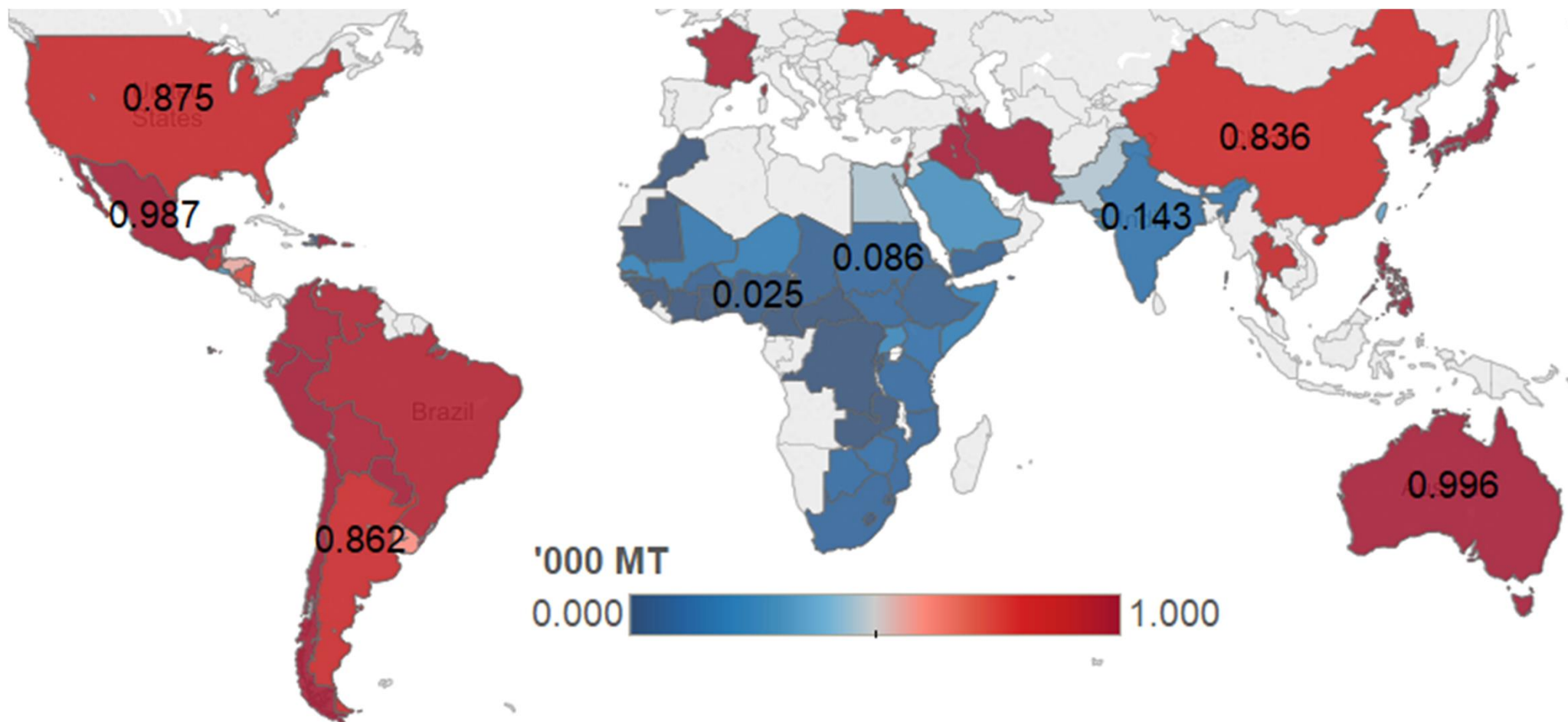


GLOBAL TRENDS – CONSUMPTION ('000 MT)

10 Year Comparison (2006 – 2016)

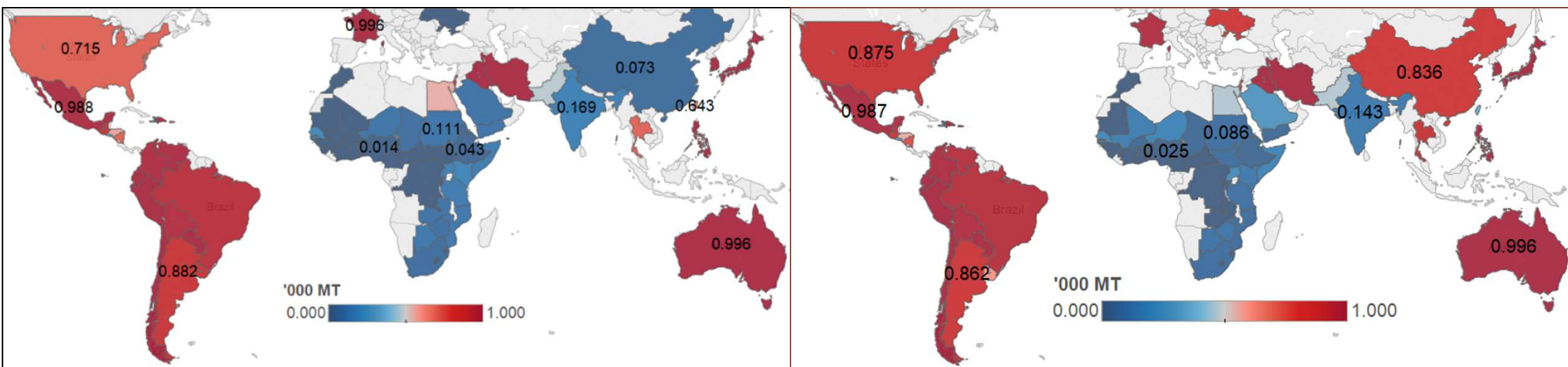


FEED, SEED AND INDUSTRIAL USE SHARE (%) IN 2016



GLOBAL TRENDS – FEED SHARE (%)

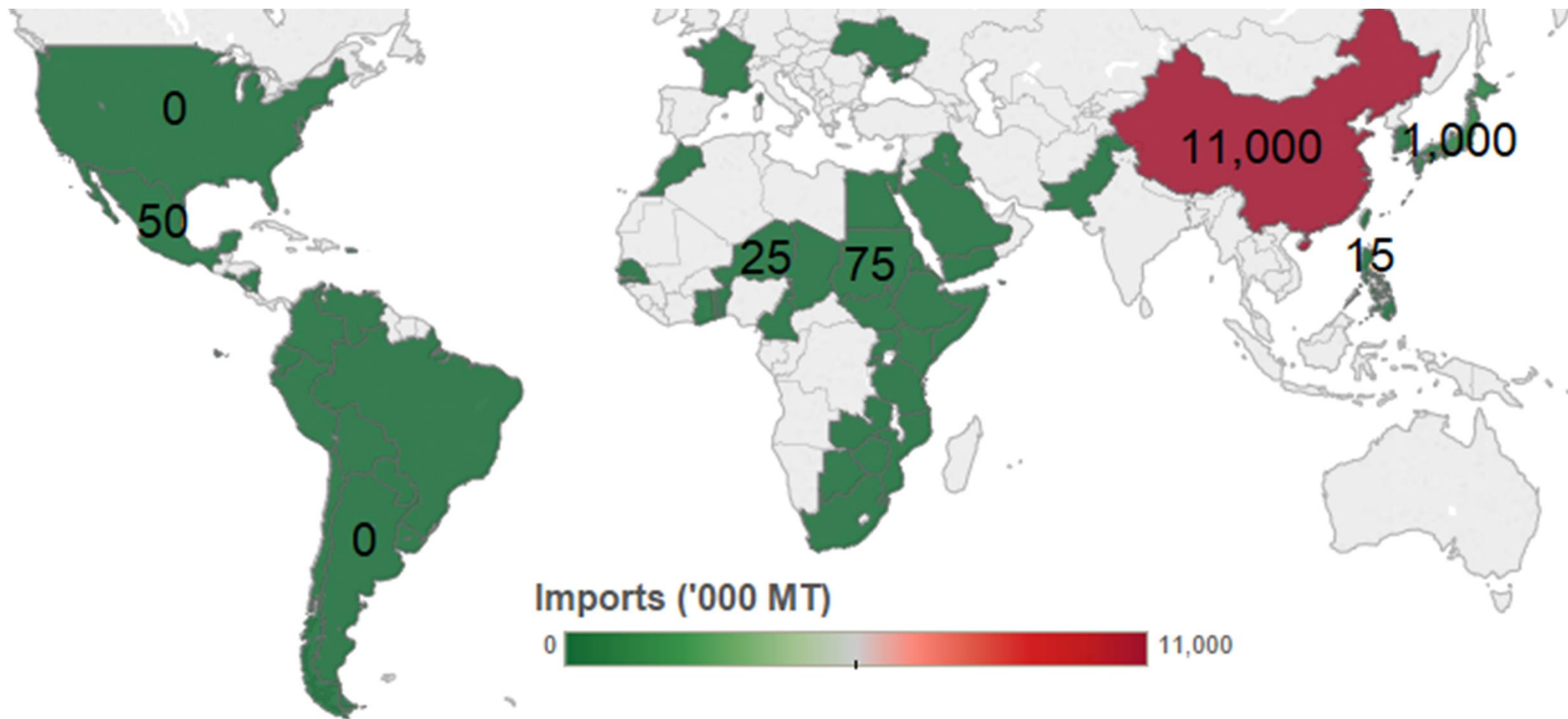
10 Year Comparison (2006 – 2016)



GLOBAL TRADE

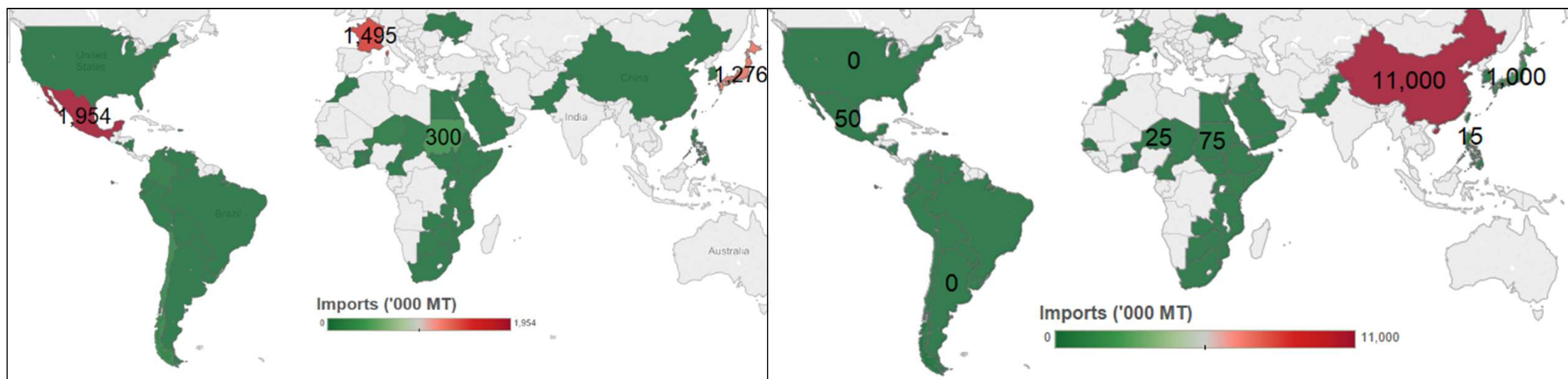


IMPORTS ('000 MT) IN 2016



GLOBAL TRENDS – IMPORTS ('000 MT)

10 Year Comparison (2006 – 2016)



GLOBAL SORGHUM TRENDS

- *Sorghum production area has been stagnant this past decade but shifted globally*
- *Production has peaked and is declining*
- *Shifting consumption patterns*
- *Trade volumes have increased by 225% since 2006*
- *Heavy export market concentration in China's recent past*

GLOBAL CONFERENCE – WAY FORWARD

- 2016 - 1st European Sorghum Congress
- 2018 - 2nd European Sorghum Congress
- 2018 - Global Sorghum Conference
- 2020 – 3rd European Sorghum Congress



2022 - Global Sorghum Conference ??

GLOBAL SORGHUM CONFERENCE

<http://www.21centurysorghum.com/>



Sorghum in the 21st Century
Cape Town, South Africa
9 – 12 April 2018

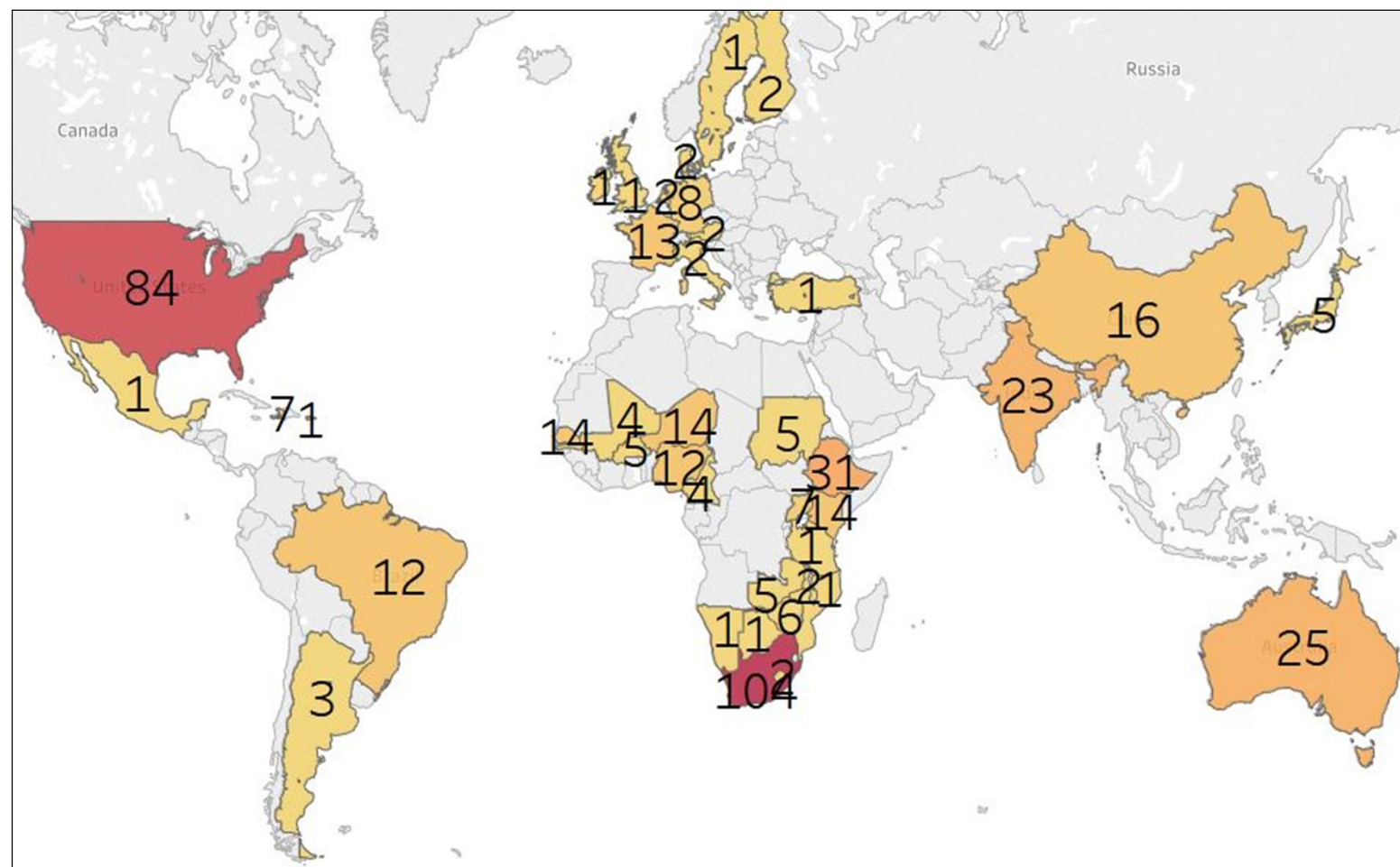


Sorghum^{ID}

2nd European Sorghum Congress
Milano, 7 and 8 November 2018

CONFERENCE - OVERVIEW

- 400 Delegates
- 40 Countries
- 4 Days



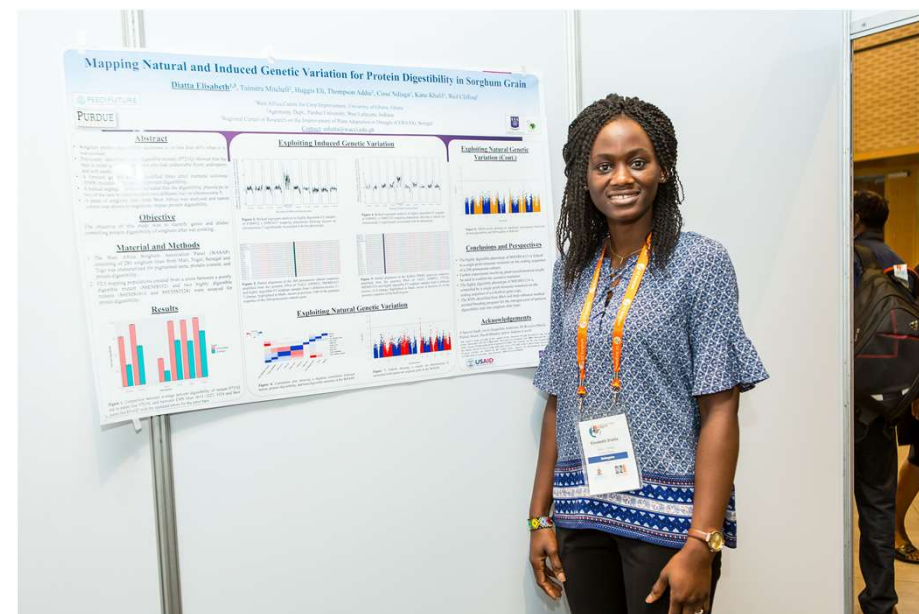
CONFERENCE - OVERVIEW

- *567 Abstracts Received*
- *197 Posters*
- *132 Presentations*
- *Technical Exhibition*



CONFERENCE – THEMES

- *Accelerating progress in advanced breeding for improved crop adaptation to climate risks*
- *Improving productivity and increasing profitability to expand opportunities across global markets*



CONFERENCE – THEMES

- *Enhancing resilience in the face of biotic and abiotic challenges*
- *Tackling key issues in food security and farming systems for improved livelihoods for the smallholder farmers*
- *Exploring the future of the value-added: Nutrition, biofuels and feedstuffs for evolving consumer demands*



CONFERENCE – SYMPOSIA & SPECIAL SESSIONS

- 1. Productivity and food security for the smallholder farmer*
- 2. A driver for change: Sorghum's role in global markets*
- 3. Bringing the Ancient Grains to the World's Dinner Tables*

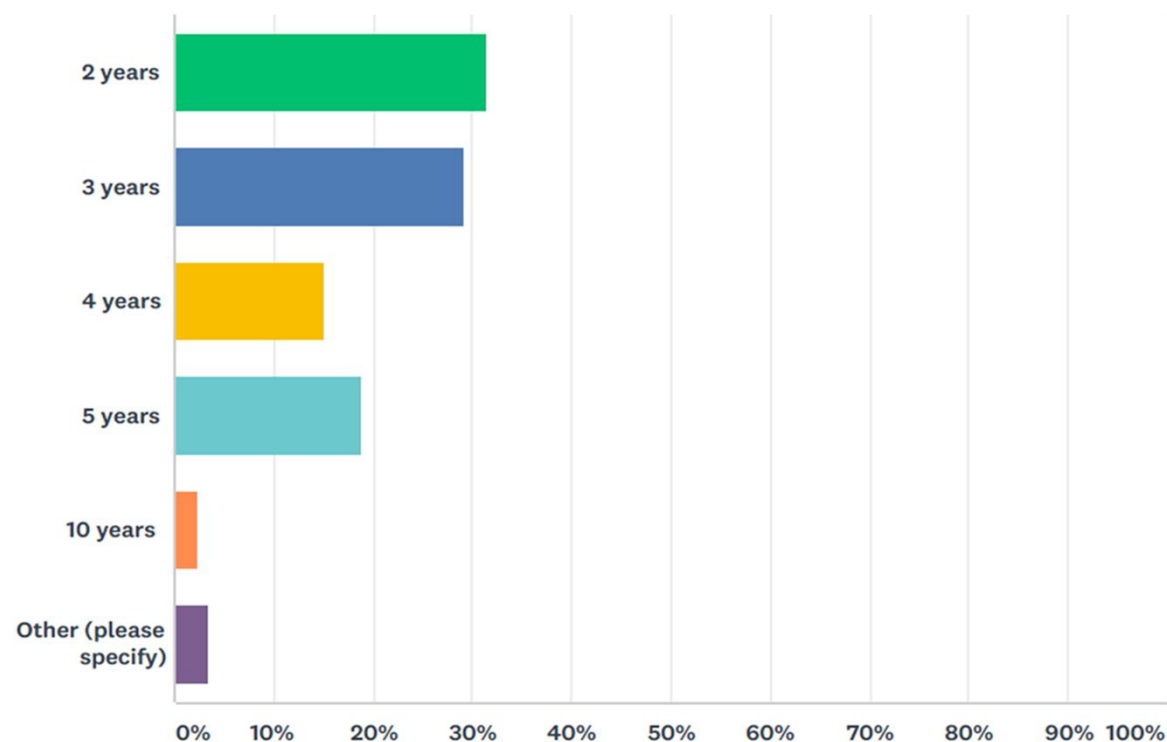
- 1. Sorghum in Southern Africa*
- 2. Improvement of Post-Rainy Season Sorghum*



NEXT GLOBAL CONFERENCE – WHEN ?

Q24 What is the optimum interval between future global sorghum conferences?

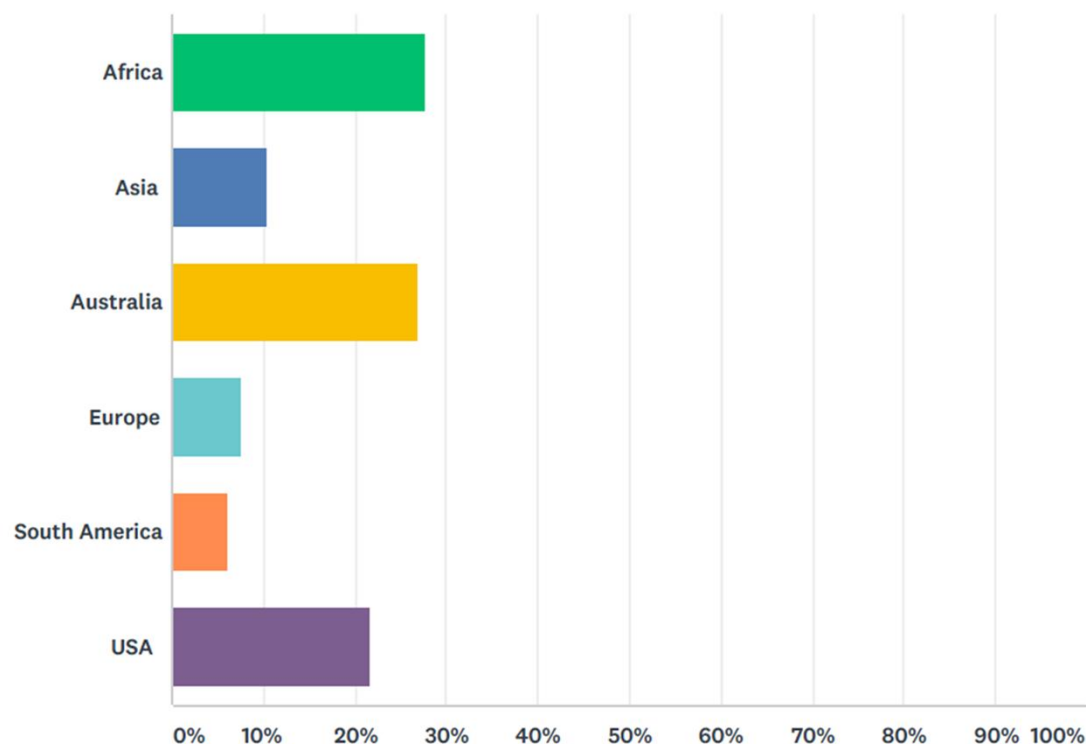
Answered: 213 Skipped: 10



NEXT GLOBAL CONFERENCE – WHERE ?

Q25 Where would you prefer to see the next global sorghum conference take place?

Answered: 213 Skipped: 10



GLOBAL CONFERENCE – WAY FORWARD

2022 - Global Sorghum Conference ??





*Sorghum: the safe
bet for the future*

THANK YOU

Nat Bascom

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