

Plants for the Future European Technology Platform



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Farming of the Future in the EU context - Challenges and opportunities

- Climate Change
 - Temperature
 - Salted soils
 - Erosion
 - Flood
 - Footprint

Farmers Feeding the World (part of the solution)



Tool Box

- Seed
- Presicion Agriculture
- Plant breeding
- Crispr = technology
- Yields (UN+70%)
- Iberian laboratory



Data sources: Up to 2015 OurWorldInData series based on UN and HYDE. Projections for 2015 to 2100: UN Population Division (2015) – Medium Variant. The data visualization is taken from OurWorldinData.org. There you find the raw data and more visualizations on this topic.

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World Population (regions) 2017, 2030, 2050, 2100 According to the average projection variant

REGION	2017	%	2030	2050	2100	%
Africa	1.256	17%	1.704	2.528	4.468	40%
Asia	4.504	60%	4.947	5.257	4.780	43%
Europe	742	10%	739	716	653	6%
South America	646	9%	718	780	712	6%
North America	361	5%	395	435	499	4%
Oceania	41	1%	48	57	72	1%
Total World	7.550	100%	8.551	9.773	11.184	100%

Source: United Nations, Department of Economic and Social Affairs, Population Division (2017). World Population Prospects: The 2017 Revision. New York: United Nations.

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DRV 2019 - Quelle: AMI, ufop, Goskomstat RF



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WHEAT YIELDS BY COUNTRIES

(5 years average JRC may 2018)





SUNFLOWERS YIELDS (Europe)

5 years average by JRC 2018



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9.000.000 1990 1991 1992 1993 1994 1995 1996 1991 1998 1999 2000 2001 2002 2003 2004 2005 2006 2001 2008 2009 2010 2011 2012 2013 2014 2015 2016 2011 2018 2019 2020 2021 2022























With adequate tools we can produce potatoes in Mars



Farmers adapt to everything



If you have to grow potatoes on Mars, we can make it like Matt Damon on Mars





for every ton produced, land use was reduced by 52.3%



water consumption by 31.0% & 34.2% in the case of irrigation water



energy consumption by 12.5% and soil loss due to erosion by 52.0%.



FREEDOM OF CHOICE – CORN – MAIZE















SECCIONES Y NOTICIAS Y AGROPOPULAR Y AUDIOS Y

El cambio climático reducirá un 50% la producción del secano en el sur de Europa en 2050

Según un estudio de la Agencia Europea de Medio Ambiente (AEMA)

INICIO

05/09/2019





Foto de la Agencia Europea de Medio Ambiente (AEMA)





EROSION in Spain







Farming of the Future in the EU context - Challenges and opportunities

El incremento de los costes de producción, asfixia al sector





COMMUNICATION





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In memory of Professor Klaus Ammann Fellow at Royal Society of Biology







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THANK YOU

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