## THE CLIMATE CHANGE GAME

**HOW SOON BEFORE WE TOPPLE?** 



- RAINFALL PATTERNS SHIFT
- INTENSE DROUGHTS & FLOODS
- ICE CAPS MELT
- SEA LEVELS RISE
- ECO-SYSTEMS DESTROYED



OUR LIFESTYLES ARE DEVASTATING THE EARTH AND ALL LIFE ON IT

IF WE TOPPLE, WILL IT BE

**GAME OVER?** 





CO<sub>2</sub> AND OTHER *GHGs* EMITTED THROUGH OUR
LIFESTYLE CHOICES ARE CHANGING OUR CLIMATE. MORE
HEAT THAN EVER BEFORE IS TRAPPED IN OUR ATMOSPHERE,
INCREASING GLOBAL TEMPERATURES



### UNSTABLE CLIMATE

#### SINCE LATE 1700s

WE EXTRACT AND BURN
FOSSIL FUELS- COAL, OIL
AND NATURAL GAS- TO
MAKE ELECTRICITY AND
TO FUEL OUR LIFESTYLES,
EMITTING HUGE VOLUMES OF
CO2



AT THE SAME TIME, WE CLEAR FORESTS
FOR AGRICULTURE
AND INDUSTRY



LESS CO<sub>2</sub> REMOVED FROM OUR ATMOSPHERE

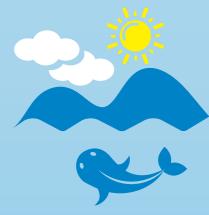


STABLE CLIMATE

EARTH'S CLIMATE AND THE LEVEL OF CO<sub>2</sub> IN OUR ATMOSPHERE CHANGED THROUGHOUT HISTORY

BUT! OVER THE PAST **8,000 YEARS**OUR CLIMATE STABILISED AND



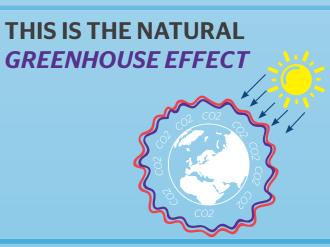


**GREENHOUSE EFFECT** 

SUNLIGHT ENTERS
OUR ATMOSPHERE TO
REACH EARTH



GHGs THEN TRAP EXITING ENERGY FROM EARTH'S HEATED SURFACE LIKE A BLANKET PREVENTING US FROM FREEZING



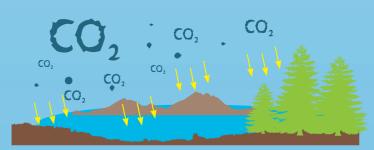
**EXIT CARBON DIOXIDE** 



EXITS OUR
ATMOSPHERE THROUGH
PHOTOSYNTHESIS

CARBON DIOXIDE

IT IS ALSO ABSORBED BY SEA, SOIL AND STORED IN TREES



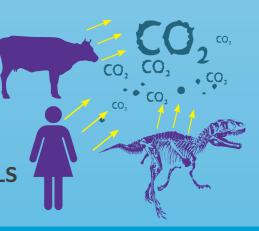
ENTER CARBON DIOXIDE



CARBON DIOXIDE (CO<sub>2</sub>)

CAN CAUSE OUR CLIMATE TO CHANGE

CO<sub>2</sub> ENTERS OUR
ATMOSPHERE THROUGH
BREATHING HUMANS
AND ANIMALS,
VOLCANOES, DECAYING
PLANTS, AND FOSSIL FUELS



WEATHER AND CLIMATE



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**CLIMATE** = AVERAGE WEATHER PATTERN OVER LONG

PATTERN OVER LONG
PERIODS OF TIME



START HERE



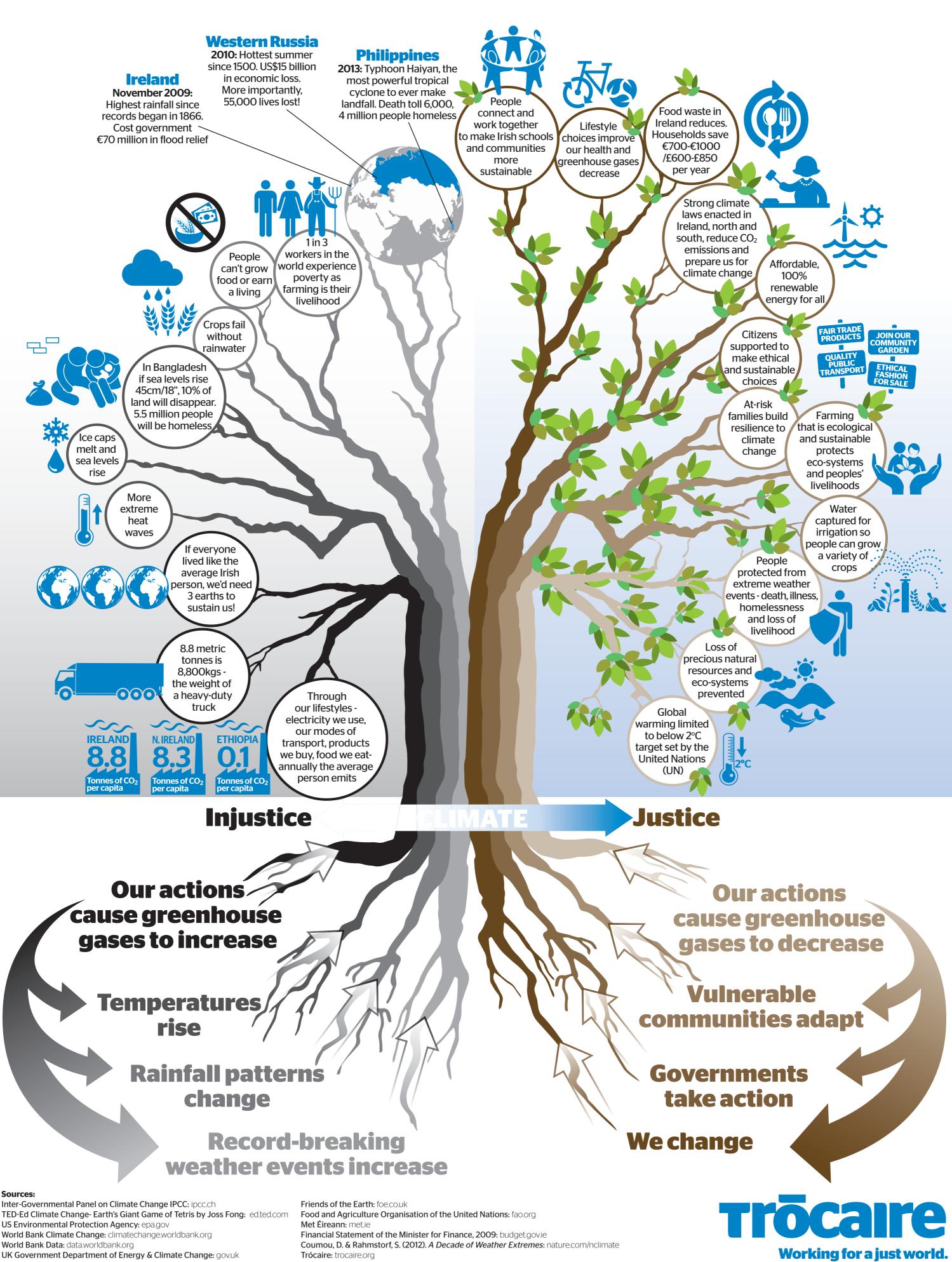
CLIMATE CHANGE BUILDING BLOCKS



F:E8 Printed on recycled paper

14717-E8 Info Graphic-Front and Back.indd 1

# Climate Justice Tree



#### Sources:

Inter-Governmental Panel on Climate Change IPCC: ipcc.ch

World Bank Data: data.worldbank.org