

Trees and stones
will teach you
that which you
can never learn
from masters.

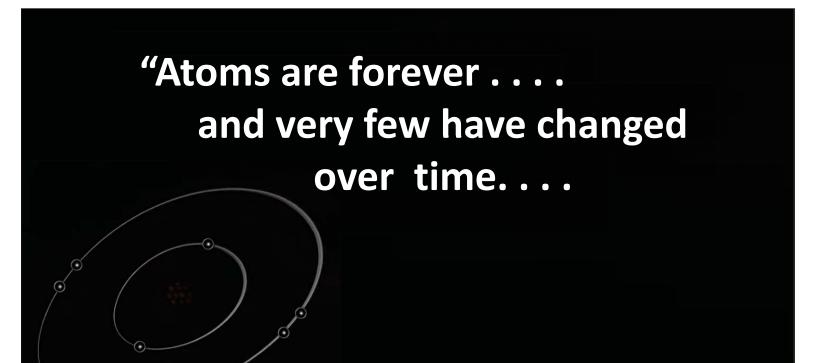
- St. Bernard of Clairvaux

WHAT CAN WE LEARN FROM TREES?

Prologue

"Our Daily Breath"





"Carbon Atom"

by artist Pet Serrano

Text from: Physics Concepts and Connections,

by Art Hobson, 5th Edition (2010) pp 43-44

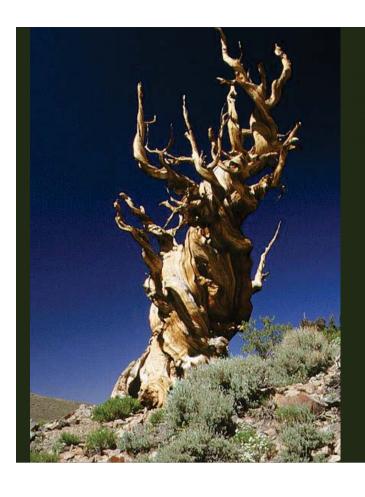
a part of a skin cell today,
a part of a gas in the atmosphere
a century from now,
and a part of a tree
a century after that....

... 'Your' atoms,
the ones you are carrying around right now,
have been borrowed from the air,
from the soil, from the forests,
from every creature and person
who has ever lived on Earth,
until they are given back."

This means that:

#1 Everything is connected . . .

#2Processes (and actions)
in one part of the
Earth-Atmosphere Environment
can have a profound
and LASTING
IMPACT on other parts.



The Bristlecone Pine

"... remarkable combination of longevity and sensitivity . . ."

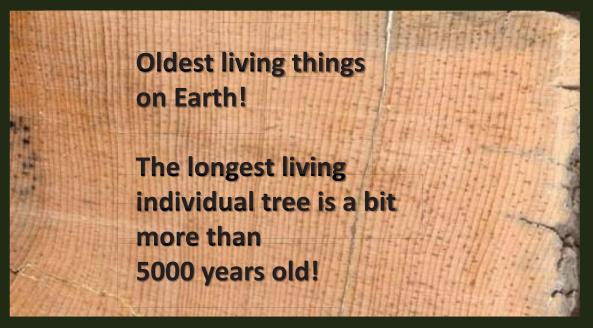
Longevity under Adversity in Conifers

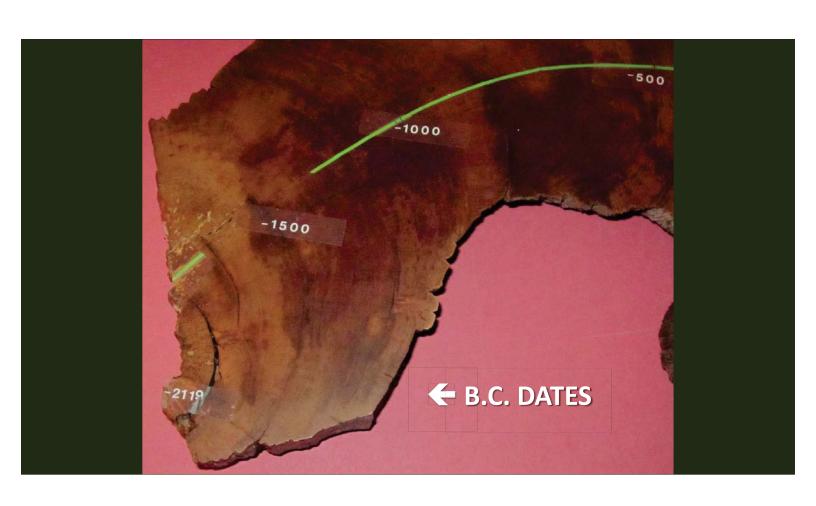
Edmund Schulman

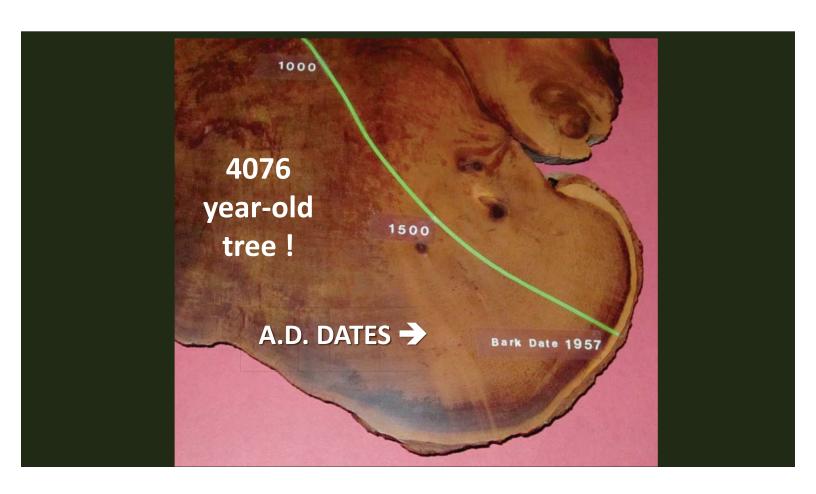
Division of Geological Sciences, California Institute of Technology,2 Pasadena

On marginal sites in semiarid regions of the western United States, trees of several coniferous species have been found that far exceed the generally accepted maximum ages for these species. The annual stem recent her great trees is extractly accepted.

theless, the width of the annual rings in many of these trees is particularly sensitive to the varying rainfall from year to year (2). This remarkable combination of longevity and sensitivity makes it possible to derive tree-ring indices of neat very-by-very rainfall that are The ancient bristlecone pine trees grow very slowly, produce very narrow rings, and are resin-rich



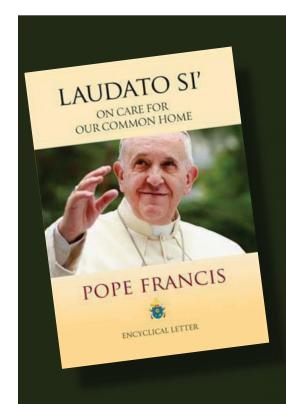




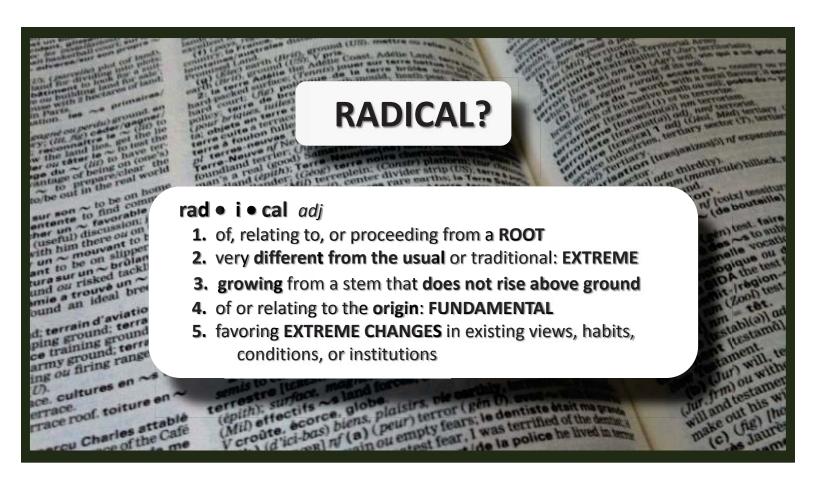




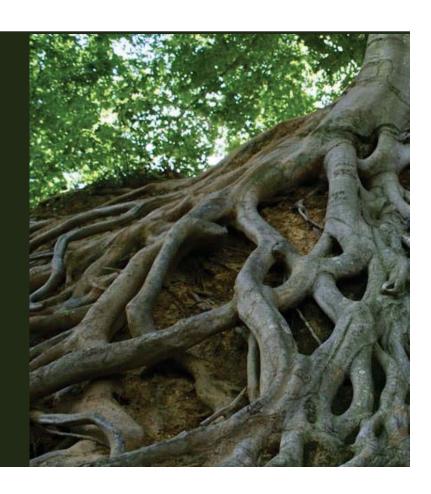




Laudato Si'
is Pope Francis'
RADICAL & URGENT
APPEAL
for a NEW DIALOGUE
about how we are shaping
the FUTURE OF THE PLANET

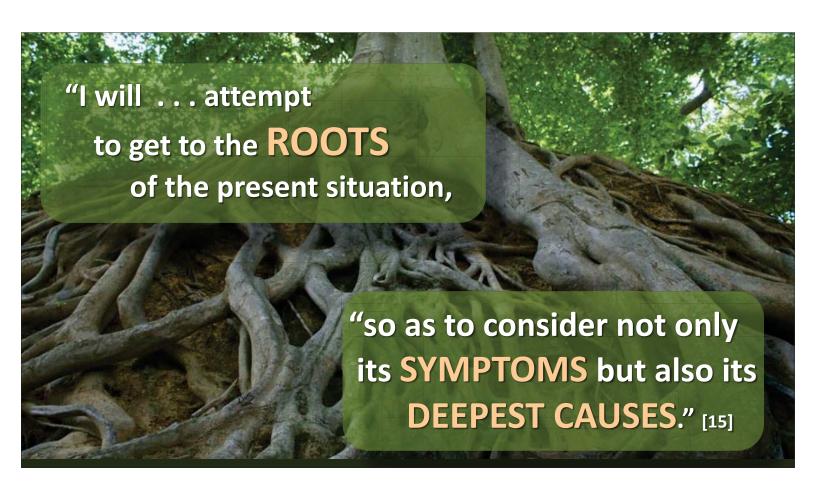


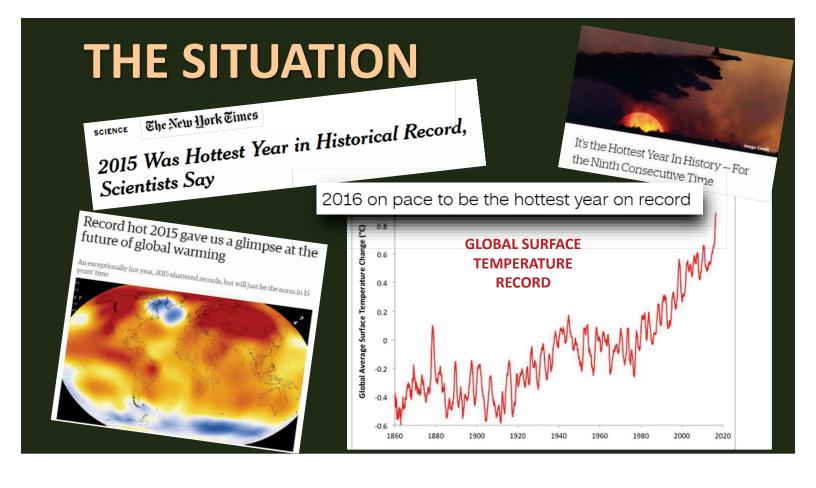
Part I GETTING TO THE ROOTS



Radical (def)

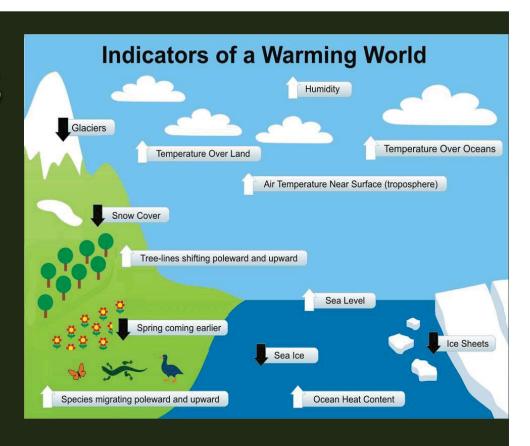
1. of, relating to, or proceeding from a **ROOT**





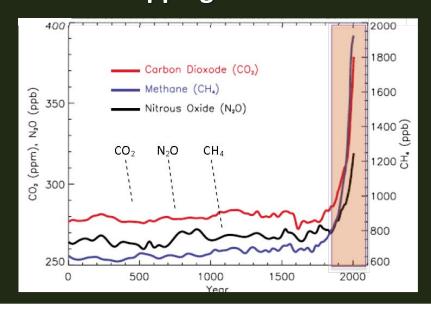
SYMPTOMS

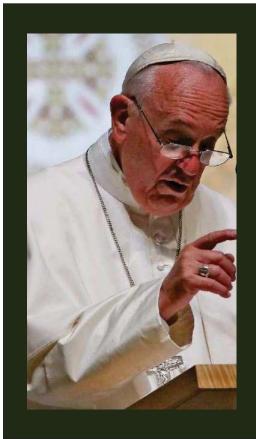
An entire
GLOBE full
of evidence
in nature
speaking to us



"DEEPEST" CAUSES

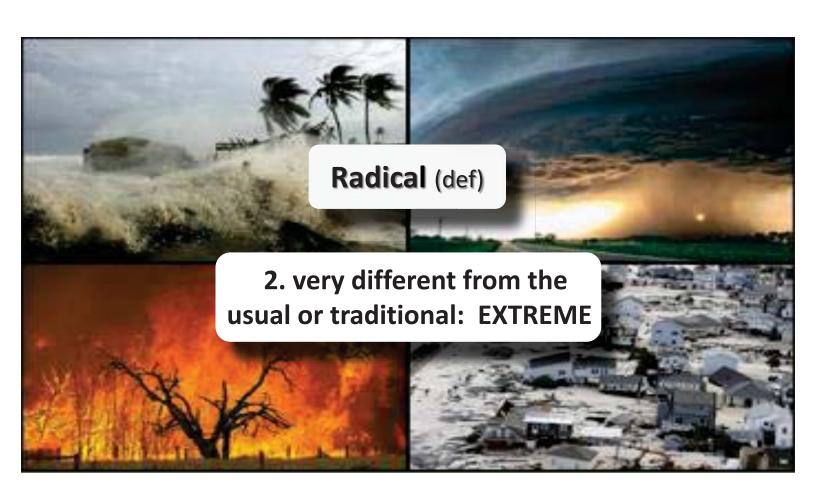
Humans are responsible for the <u>abrupt increase</u> in the "heat trapping" Greenhouse Gases





The Encyclical is in accord with the science:

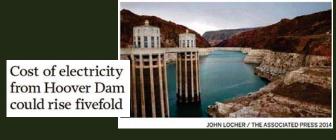
"most global warming in recent decades is DUE TO THE GREAT CONCENTRATION OF GREENHOUSE GASES (carbon dioxide, methane, nitrogen oxides and others) released mainly as a result of human activity." [23]







Scenario dire for cities under Colorado River water shortage



Drought drives California almond farmers to cut orchards



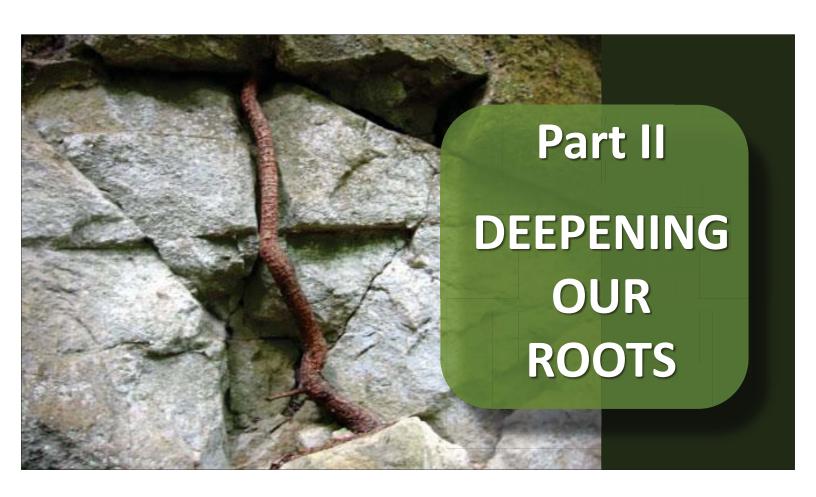
Residents flee while dodging burning poles, power lines



Fires in Calif. destroy at least 400 homes

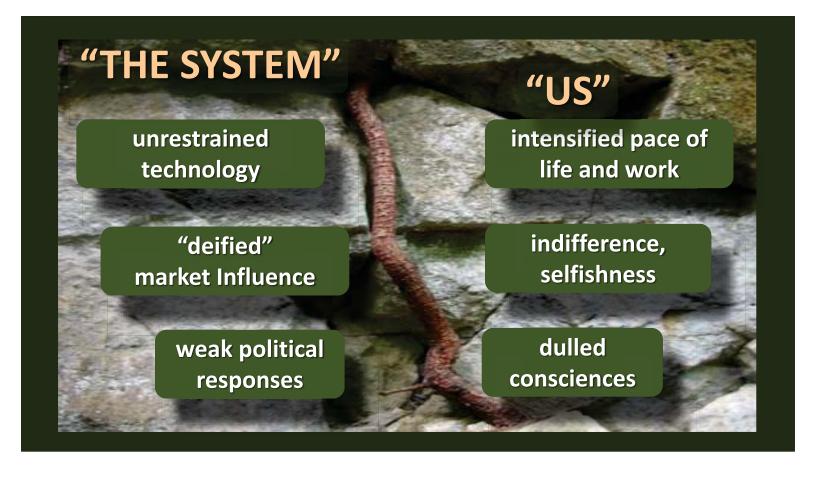
THE SCIENTIFIC CONSENSUS

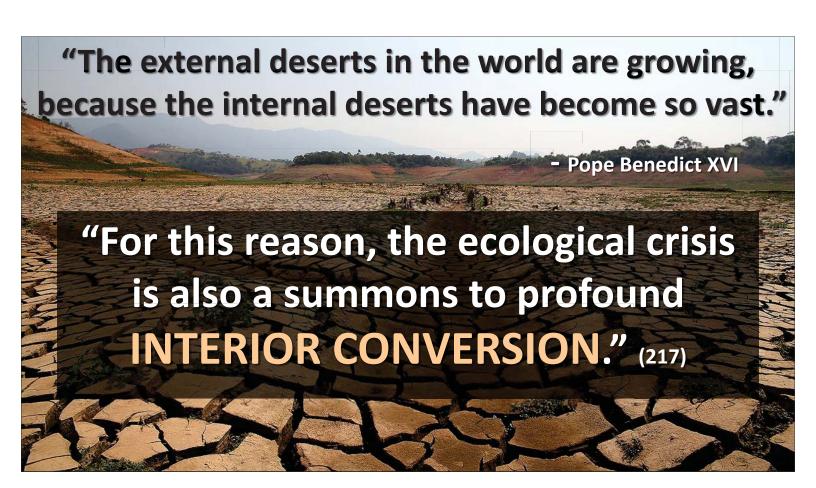
- 1. CLIMATE CHANGE IS REAL: <u>has</u> happened, <u>is</u> happening, <u>will</u> continue to happen in the future
- 2. The EARTH IS WARMING
- 3. HUMANS are causing a significant portion of this recent warming
- 4. The WARMING WILL CONTINUE
- 5. Globally the NET RESULT WILL BE BAD for people, plants, and animals especially those MOST VULNERABLE

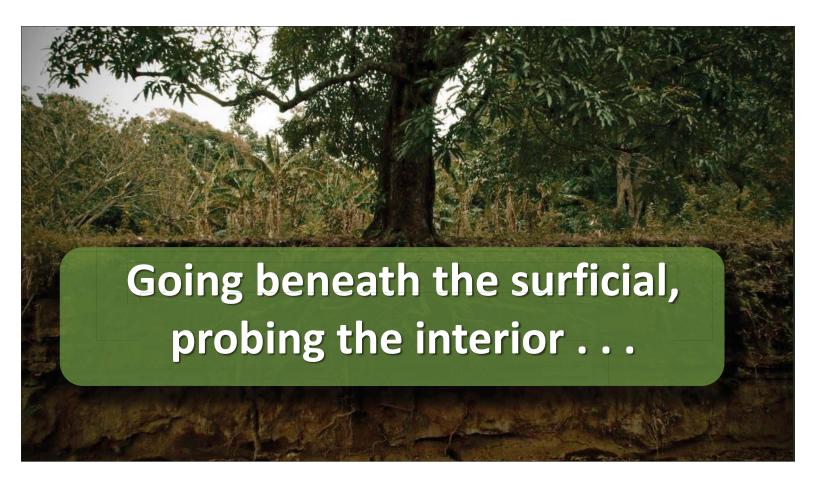




"We fail to see the DEEPEST ROOTS of our present failures . . ."
[109]



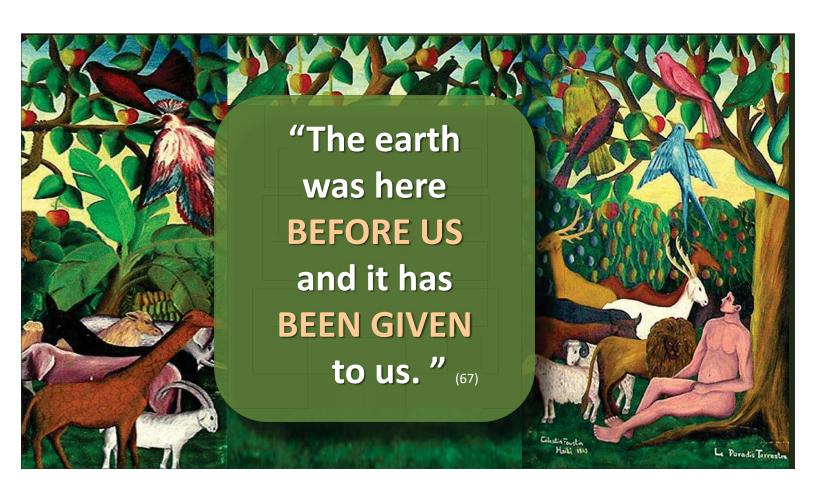


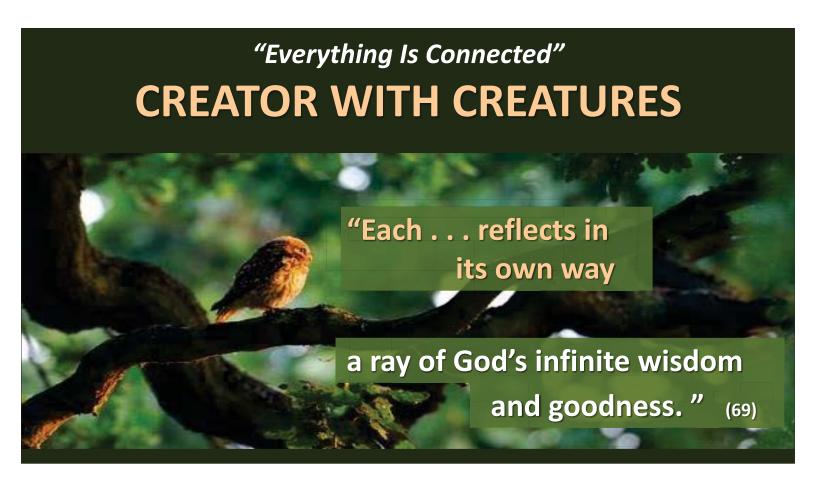




"Everything Is Connected" DIVINE WITH HUMAN







"Everything Is Connected" US, THE EARTH, & EACH OTHER



"We have forgotten that we ourselves are dust of the earth ...

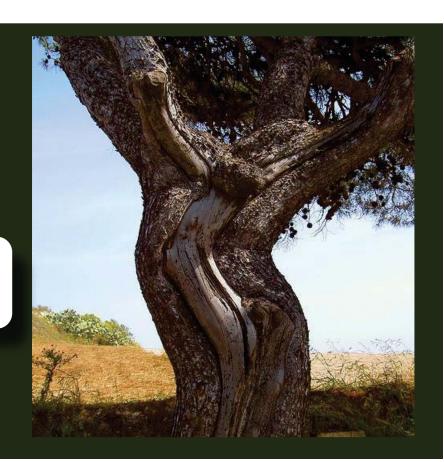
OUR VERY BODIES ARE MADE UP

OF HER ELEMENTS" [2]



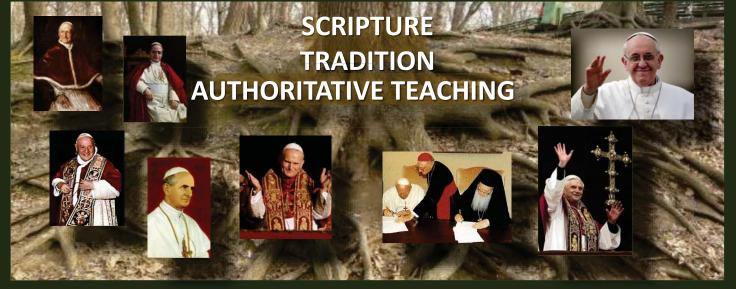
Radical (def)

4. of or relating to the origin: FUNDAMENTAL

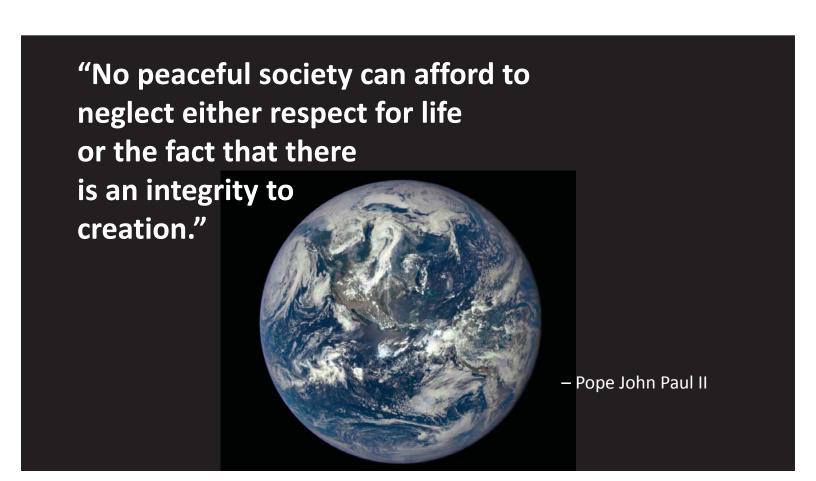


ENVIRONMENTAL CONCERN IS DEEPLY ROOTED

In The Origins of Our Faith



"Faith perspective now enters the discussion"





Radical (def)

5. favoring EXTREME CHANGES in existing VIEWS, HABITS, CONDITIONS, or INSTITUTIONS

EXTENSIVE CONVERSION

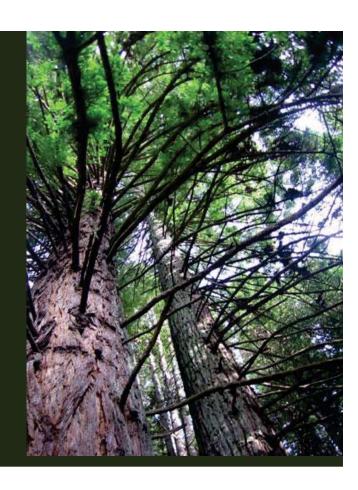
"Let US . . . dare to turn
WHAT IS HAPPENING
TO THE WORLD
into our own
PERSONAL SUFFERING. . ." [19]





". . .the environmental challenge we are undergoing, and its HUMAN ROOTS, concern and affect us ALL." (14)

Part III
BRANCHING
OUT







POLITICS and BUSINESS have been slow to react

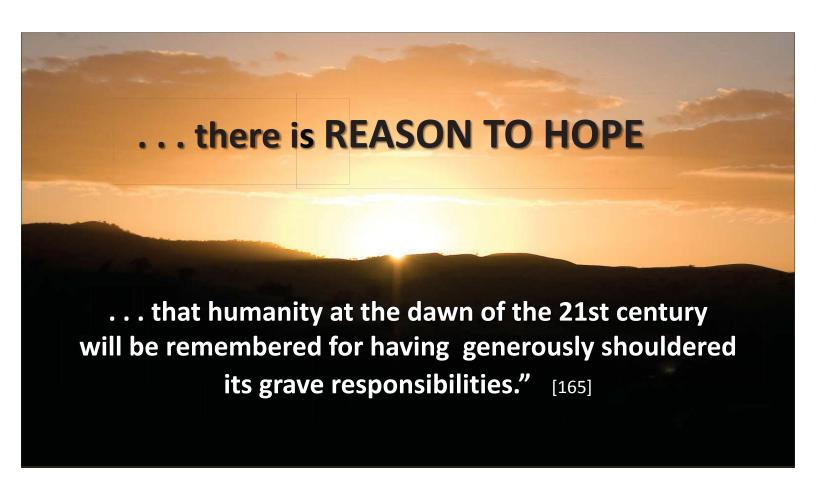
in a way
commensurate
with the
URGENCY
of the challenges
facing our world.



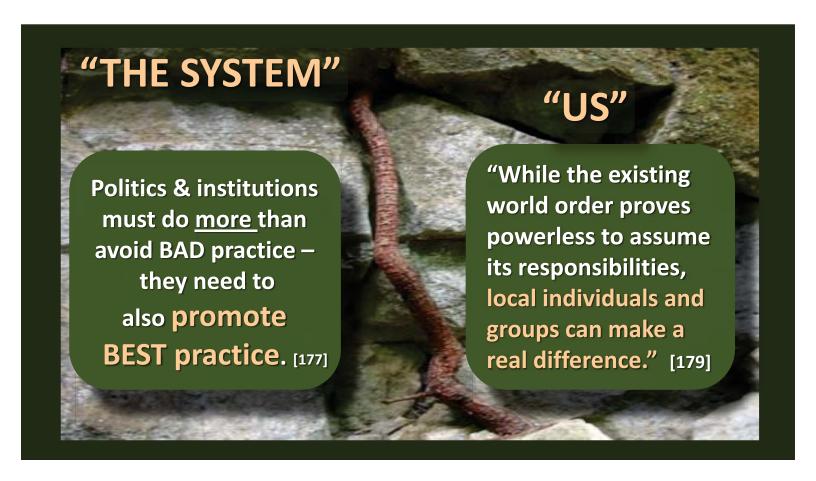
"Although the post-industrial period may well be remembered



as one of the most irresponsible in history . . .







"TRULY much can be done!" [180]

Multiple ways to act and advocate at the local level:

- Modifying consumption
- Developing economy of waste disposal and recycling
- Sustainable agriculture
- Inspirational & empowering training
- Co-ops / Local groups
- Green energy
- Fossil-fuel divestment





"There is a nobility in the duty to care for creation through little daily actions . . ." [211]



"We must <u>not</u> think that these efforts are NOT going to change the world." [212]

There is always hope for a tree:



If it is cut down, it will sprout again, and its new shoots will not fail.

Its roots may grow old in the ground and its stump die in the soil,

yet at the scent of water it will bud and put forth shoots like a plant.

Job 14: 7-9



"Start by doing what is necessary; then do what is possible; and suddenly you are doing the impossible."

St. Francis of Assisi

Amen



Pray
 Live
 Advocate

Take the St. Francis / Laudato Si' Pledge to Care for Creation and the Poor

visit: catholicclimatecovenant.org





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Catholic Climate Ambassador

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