

SARAH
VANDERPOOL

CLOUDFISHER

SPECIAL TOPICS IN CULTURAL STUDIES
ARCH 6290 H01

From fog to drinking water...

(Nikolov, 2017)



BACKGROUND INFO

THE UNITED NATIONS' WATER AGENCY PREDICTS BY THE YEAR 2025, THERE WILL BE **1.8 BILLION PEOPLE** AFFECTED BY AN INSUFFICIENT AMOUNT OF WATER

(WEI-HAAS, 2017)



JUSTIN SULLIVAN/GETTY IMAGES NEWS/GETTY IMAGES

QUESTIONS TO PONDER

SPECIAL TOPICS IN
CULTURAL STUDIES
ARCH 6290 Ho1

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SPECIAL TOPICS IN
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HOW DO WE AS A GROUP OF PEOPLE SEE AND REACT TO SUSTAINABLE PRACTICES AS A COLLECTIVE?

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WHAT DO WE NEED TO CHANGE IN REGARDS TO THESE PRECONCEIVED OUTLOOKS?

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HOW WILL THESE CHANGES IMPACT THE WAY OUR CULTURE CAN ACHIEVE A HIGHER LEVEL OF SUSTAINABILITY FOR THE FUTURE?

MOROCCO

ORGANIZER:

DAR SI HMAD

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(ALATALO, 2018)

DETAILS

MANUFACTURER

AQUALONIS

DESIGNER

PETER TRAUTWEIN

WATER HARVEST (RATE)

6-22 LITERS PER SQ FT

WIND LOAD

75 MPH

COST

10.900 EUROS PER/UNIT
(~ \$12,000)

HEIGHT

20'

MOUNT BOUTMEZGUIDA

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(AQUALONIS, 2019)

MOUNT BOUTMEZGUIDA

BY 2018 THERE WERE
A TOTAL OF **1,700 SQ
METERS** OF THESE
MESH OBJECTS ON
THE LANDSCAPE.

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MOUNT BOUTMEZGUIDA

A LITTLE MORE THAN
THREE FOOTBALL
FIELDS IN AREA



MOUNT BOUTMEZGUIDA

6-22 LITERS PER
SQ.METER OF MESH

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MOUNT BOUTMEZGUIDA

6-22 LITERS PER
SQ.METER OF MESH

37,400 LITERS OF
WATER PER DAY

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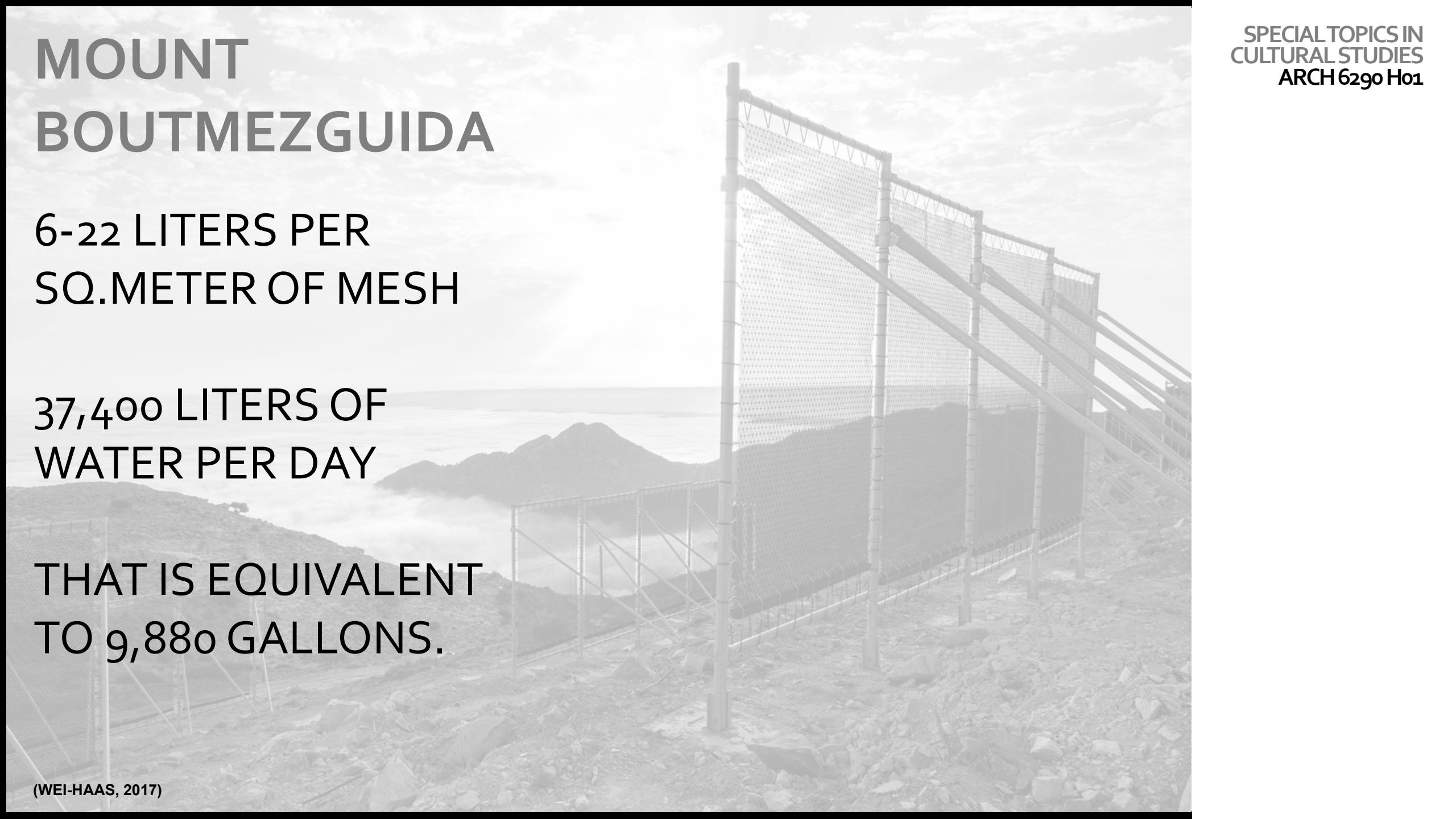


MOUNT BOUTMEZGUIDA

6-22 LITERS PER
SQ.METER OF MESH

37,400 LITERS OF
WATER PER DAY

THAT IS EQUIVALENT
TO 9,880 GALLONS.



QUESTIONS TO PONDER

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- OUTSIDERS SEES ISSUE WITH WATER AND TRIES TO FIX IT
 - DISREGARDS CULTURAL OPINION WHEN IMPLEMENTING DESIGN
 - HIGHER MINDSET OF "KNOWING BEST" WHILE STILL TRYING TO HELP
 - CHANGING TRADITIONAL PRACTICES TO INCREASE HEALTH AND WELLNESS FOR HABITANTS OF THE AREA

FOG CATCHMENT SYSTEM

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(ALATALO, 2018)

FOG CATCHMENT SYSTEM

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THE EXTRA WATER
PROVIDED ABOUT A
THOUSAND PEOPLE
WITH
APPROXIMATELY **18**
LITERS (4.8 GAL) OF
WATER PER DAY FOR
DRINKING AND
OTHER THINGS

FOG CATCHMENT SYSTEM

THE EXTRA WATER PROVIDED ABOUT A THOUSAND PEOPLE WITH APPROXIMATELY **18 LITERS (4.8 GAL)** OF WATER PER DAY FOR DRINKING AND OTHER THINGS

THIS IS DOUBLE THEIR NORMAL AMOUNT OF WATER WHICH IS **8 LITERS (2.11 GAL)** A DAY

FOG CATCHMENT SYSTEM

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THE AVERAGE
PERSON USES ABOUT
**80-100 GAL (303-379
LITERS)** OF WATER
PER DAY



(UNITED STATES GEOLOGICAL SURVEY, 2016)

FOG CATCHMENT SYSTEM

THE AVERAGE
PERSON USES ABOUT
**80-100 GAL (303-379
LITERS)** OF WATER
PER DAY



IN A HOUSEHOLD OF
4 PEOPLE, THAT IS
ABOUT **400 GAL (1514
LITERS)** OF WATER
PER DAY



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- UNDERSTANDING THE PREVIOUS WAYS OF DOING THINGS AND TRYING TO WORK WITH EDUCATING PEOPLE BEFORE IMPLEMENTING
 - RESEARCHING THE WAY THE TECHNOLOGY OR SOCIAL PRACTICE WILL BE IMPLEMENTED IN REALITY NOT JUST IN THEORY
 - TRYING TO INTRODUCE SOMETHING THAT WILL NOT BE A WHITE ELEPHANT IN THE LONG RUN FOR THE PEOPLE

MESH CONTAINMENT

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(ALATALO, 2018)

MESH CONTAINMENT

SPECIAL TOPICS IN
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THE MESH CATCHES
THE WATER WHICH
FLOWS DOWN TO A
TROUGH BELOW.

THESE CAN RESIST
WINDS UP TO **75**
MILES PER HOUR

MESH CONTAINMENT

THE MESH CATCHES
THE WATER WHICH
FLOWS DOWN TO A
TROUGH BELOW.

THESE CAN RESIST
WINDS UP TO **75**
MILES PER HOUR

LARGER MESH KEEPS
ALL THE WATER
FROM BLOWING
AWAY IN THE WIND.

AFTER A FEW YEARS
AFTER INSTALL, THE
FIBERS ONLY
DEGRADED ABOUT
3% OF ITS ORIGINAL
STRENGTH

WATER CONTAINMENT

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WATER CONTAINMENT

SPECIAL TOPICS IN
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WATER IS SEPARATED
OUT FROM DUST TO
KEEP IT CLEAN.

LOCATION IS A
LARGE CONTRIBUTOR
TO HOW THE
COLLECTOR IS MADE
AND CONTAINED

WATER CONTAINMENT

SPECIAL TOPICS IN
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PRICE TAG OF ONE
COLLECTOR:

10,900 EUROS

OR

\$12,000

WATER CONTAINMENT

PRICE TAG OF ONE
COLLECTOR:

10,900 EUROS

OR

\$12,000

DOWNFALLS:

- COST OF MAINTENANCE
- ACCESSIBILITY TO SPARE PARTS
- LACK OF TECHNICAL ASSISTANCE

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- EDUCATION WILL INFORM DECISIONS FOR THE FUTURE AND POSSIBLY INTRODUCE NEW TRADITIONS AND HABITS
 - MOVING FORWARD AS A SOCIETY WITH THE UNDERSTANDING OF CULTURES THAT ARE NOT YOUR OWN
 - RESPECTING THE THINGS THAT ARE AROUND US AND NOT CONTINUALLY DOMINATING NATURE WITH DISREGARD

THANK YOU

REFERENCES

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