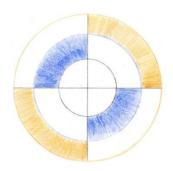
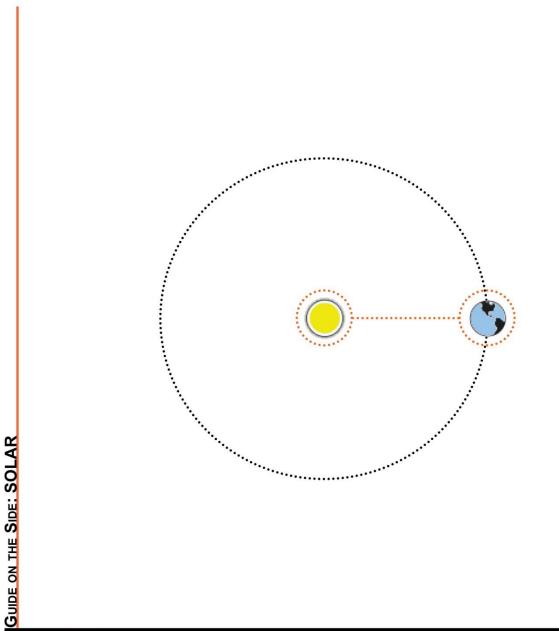
# GUIDE ON THE SIDE:

SOLAR HOUSE AND GARAGE



SOLAR 2015 JULY 2015

KENNETH BLACK + THOMAS DOORN



# GOALS

#### SOLAR:

INTRODUCTION TO A THEME

Look

LISTEN

LEARN

THINK

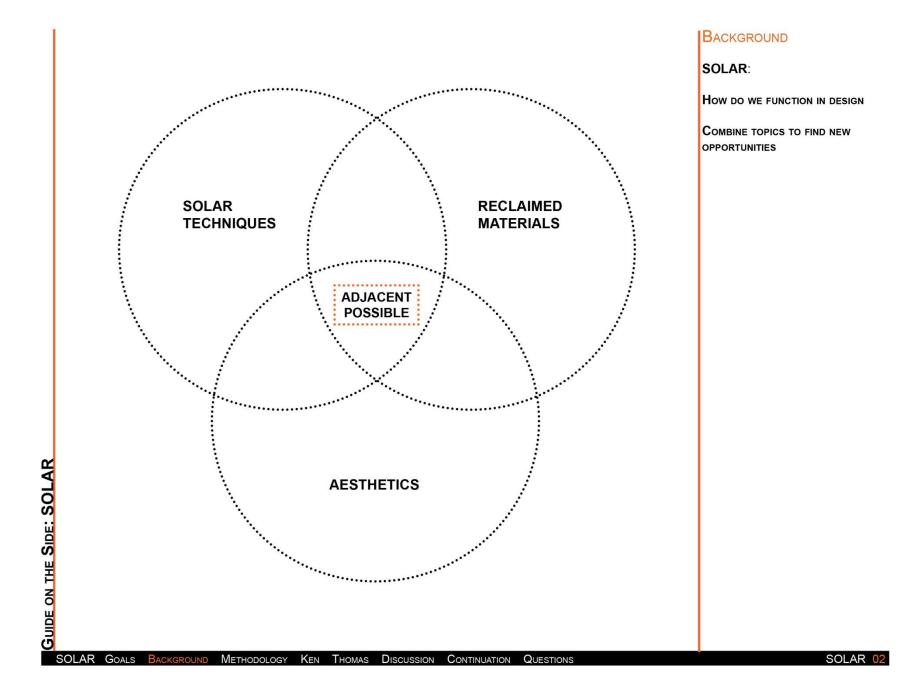
DESIGN

Аст

YIELDS:

Solar Garage

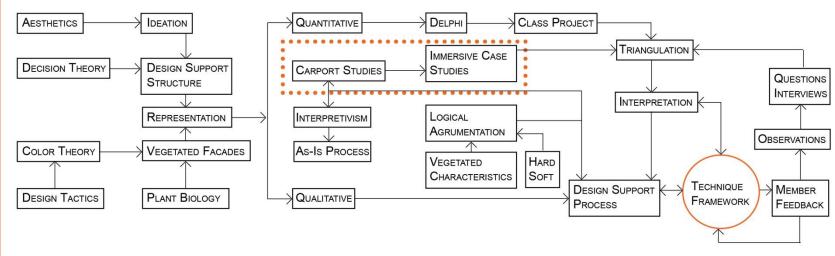
REDESIGNED SOLAR HOUSE

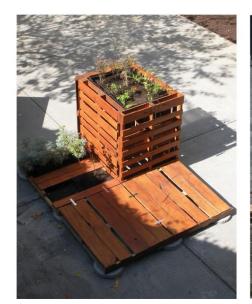


#### METHODOLOGY

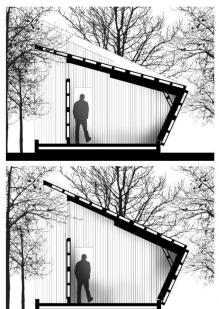
#### SOLAR:

METHODOLOGY TREE













### **IKEN**

#### SOLAR:

PROJECTS:

PALLET DECK AND PLANTER Wall section proof of concept DRAWINGS OF WALL SECTIONS SECTION STUDIES FOR GARAGE



# **IKEN**

SOLAR:

PROJECTS:

NOT ONLY ABOUT THE WORK
ABOUT THE PEOPLE INVOLOVED

# **IKEN**

#### SOLAR:

THE SOLAR GARAGE

AT A GLANCE OVER TIME













GUIDE ON THE SIDE: SOLAR







#### SOLAR:

Virginia Tech's involvement in the Solar Decathlon Competition

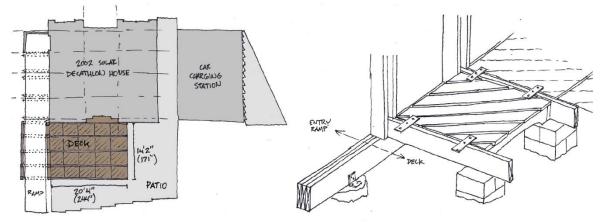
PLACEMENT OF THE 2002 HOUSE AT VIRGINIA TECH'S RESEARCH AND DEVELOPMENT FACILITY (RDF)

CURRENT STATE OF THE 2002 HOUSE AFTER 13 YEARS AT THE RDF

2002 Solar House's future contributions to the growth of the RDF







RENOVATING EXTERIOR:

IDEAS FOR RENOVATING THE 2002 SOLAR DECATHLON HOUSE

REVITALIZING THE SITE

USING PALLETS TO STRENGTHEN THE RELATIONSHIP BETWEEN THE CAR CHARGING STATION AND THE HOUSE

EXPERIENCE THROUGH MAKING

DESIGN ORIGIN:

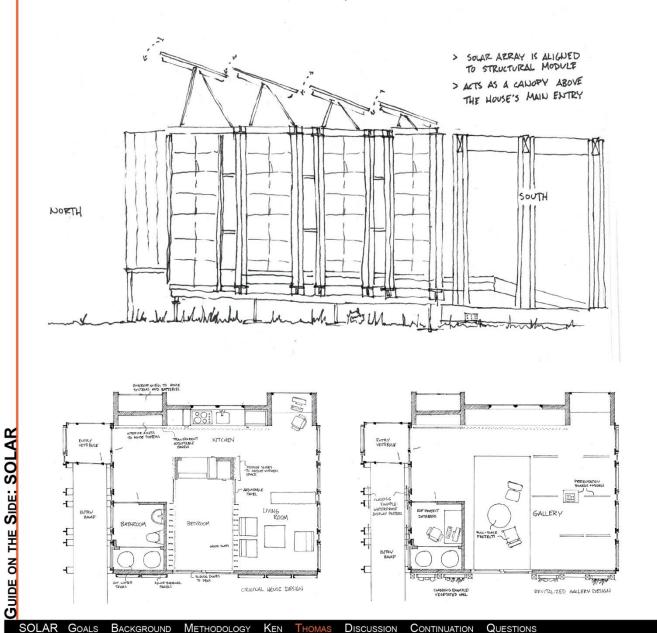
CHALLENGES PRESENTED BY THE SOLAR DECATHLON COMPETITION

TENSION BETWEEN THE
RESPONSIBILITY TO DESIGN A
BEAUTIFUL SPACE AND THE NECESSITY
TO CREATE A HIGHLY EFFICIENT ONE

EXAMPLE: TRANSPORTING THE HOUSE

SOLAR GOALS BACKGROUND METHODOLOGY KEN THOMAS DISCUSSION CONTINUATION QUESTIONS

GUIDE ON THE SIDE: SOLAR

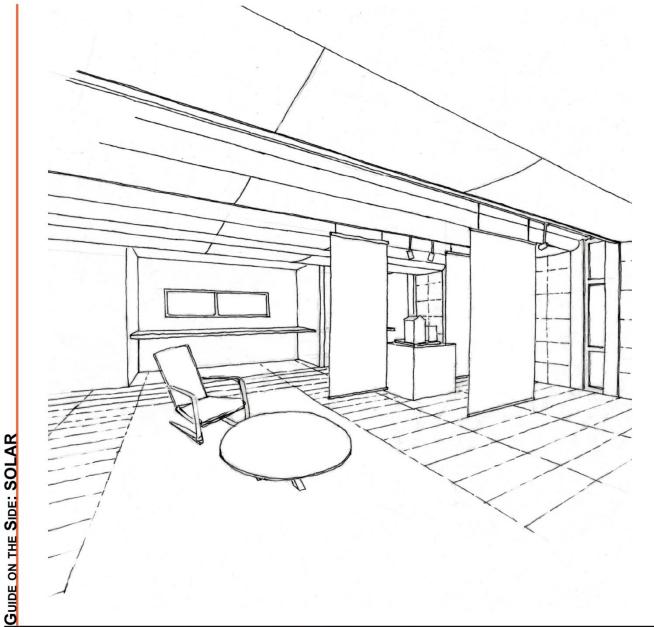


#### DESIGN ORIGIN:

TEAM DEVELOPED SOLUTIONS
THAT PRIORITIZED DESIGN WHILE
CELEBRATING THE RIGOROUS
EFFICIENCY OF THE HOUSE

COOPERATION BETWEEN ARCHITECTS AND ENGINEERS

EXAMPLES: ARRANGEMENT OF PV PANELS, USE OF NANOGEL INSULATION, AND PRODUCING EVEN LIGHTING WITHIN A TIGHT SPACE

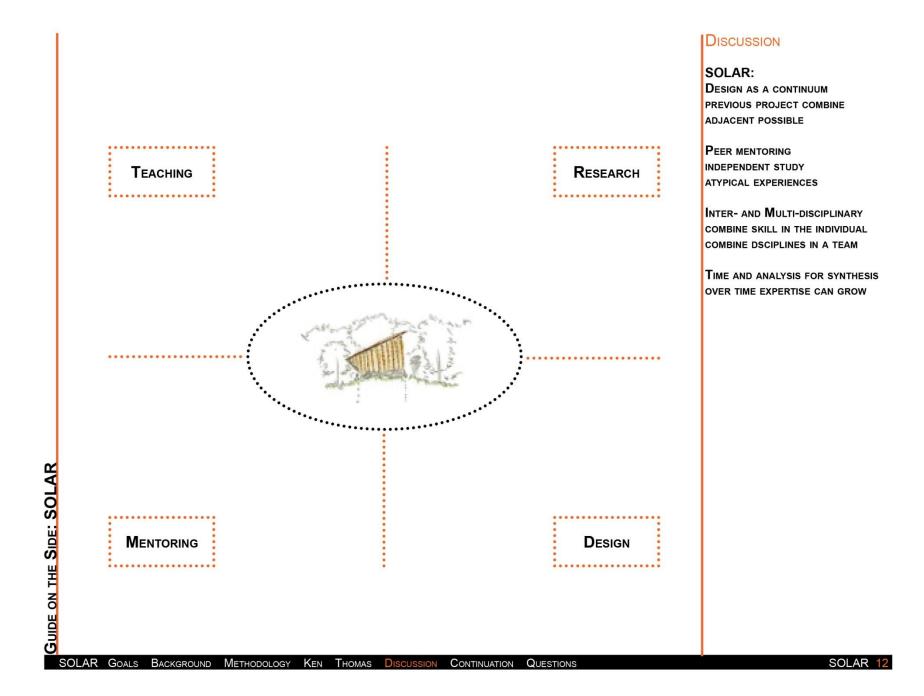


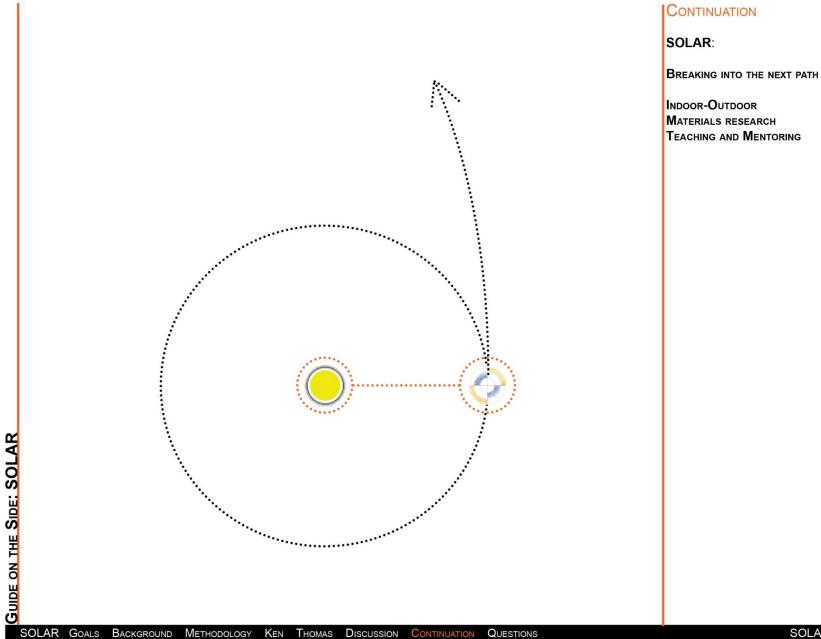
#### SOLAR:

SHARING OF KNOWLEDGE AND EXPERIENCES BETWEEN PROFESSIONALS OF DIFFERENT BACKGROUNDS

'ADJACENT POSSIBLE' IN THE HOUSE'S ORIGINAL DESIGN AND RENOVATION PROJECT

IMPACT OF THE 'GUIDE ON THE SIDE'
MENTALLITY ON THE PROJECT AND
PERSONAL EXPERIENCE

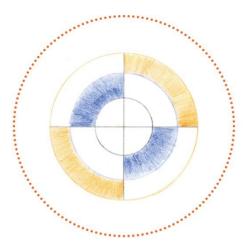




# QUESTIONS

SOLAR:

THANKS FOR LISTENING



SOLAR GOALS BACKGROUND METHODOLOGY KEN THOMAS DISCUSSION CONTINUATION QUESTIONS

SOLAR 14