



Decision Theater North



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Decision Theater **North**

The mission of Decision Theatre North is to provide a cutting-edge immersive visual environment to facilitate dialogue and decision-making by agencies, industry, and academia.

What is it?

cutting-edge

immersive

visual environment

*Does this matter.. does it
help?*

Benefits of Large High Resolution Display Environments - (*Jason Leigh of U. of Hawaii*)

Reducing window switching, **see detail & context** simultaneously [Czerwinski03, Ball05]

Helps **externalize the working memory** of teams [Andrews10]

Increases parallel processing amongst team members [Park03]

Improves **location memory** of information [Tan01]

Perceptual scalability: helps user **performance keep pace** with increasing data size [Yost07]

Results in **greater confidence in conclusions** drawn when able to see all info at once [Ball05]

Users **begin to look for higher level patterns** & relationships (i.e. they start to look for the bigger picture) [Reda12]

Arizona State University

Decision Theater creators and valuable partners in helping develop the Decision Theater North

Creators of the initial Decision Theater and the current Decision Theater Network that includes ASU facility, a Tempe facility, and the Washington DC Decision Theater West at the McCain Institute.



LATEST NEWS

MCCAIN, STANTON, BRNOVICH:
ANTI-SEX-TRAFFICKING PUSH
SHOWING RESULTS

CEASE PHOENIX METRO, THE
MCCAIN INSTITUTE AND CLEAR
CHANNEL OUTDOOR AMERICAS NET
RESULTS

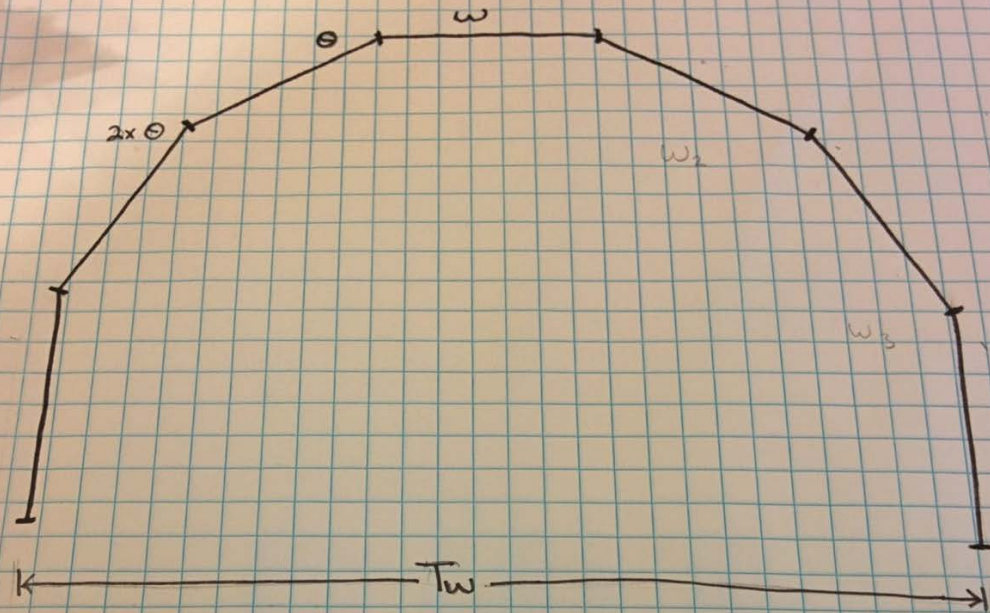
THE WEST SHOULD TAKE ON THE
PUTIN P.R. MACHINE

[MORE NEWS »](#)

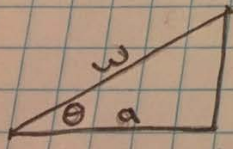
Decision Theater

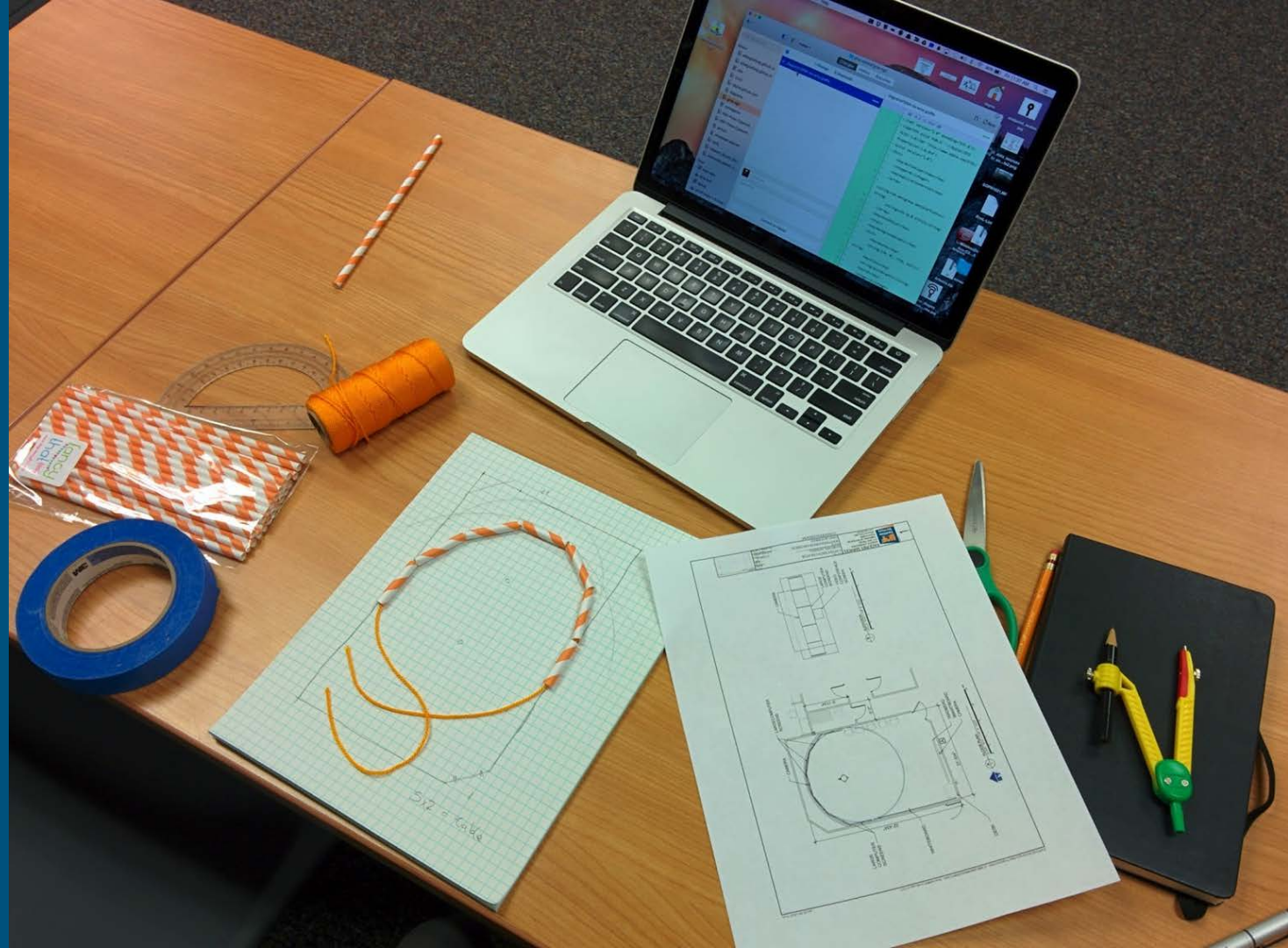
The Build

Making a Decision Theater



$$T_w = \omega + 2(\omega \times \cos(\Theta) + \omega \times \cos(2 \times \Theta))$$

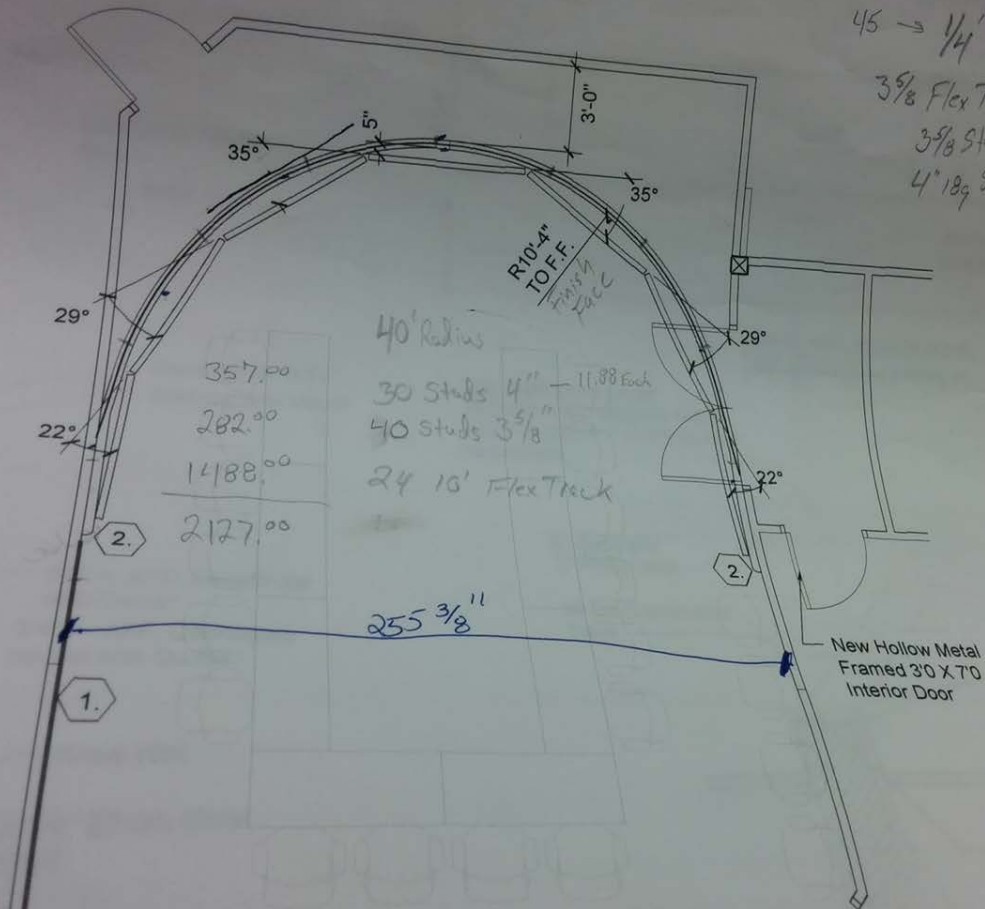




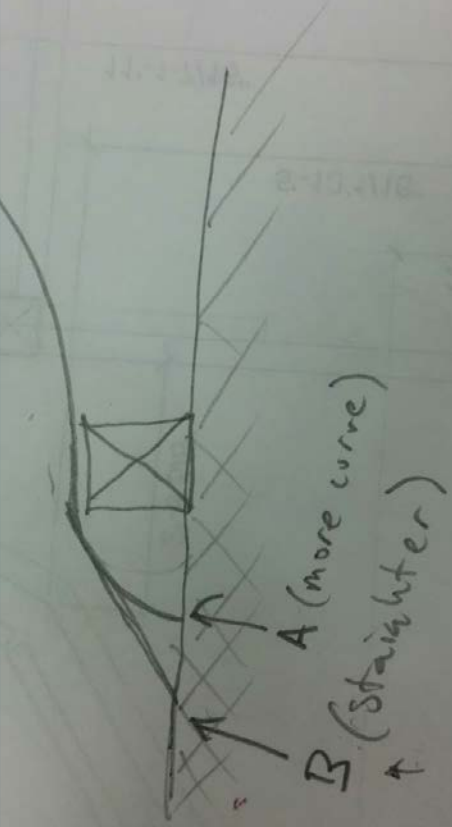
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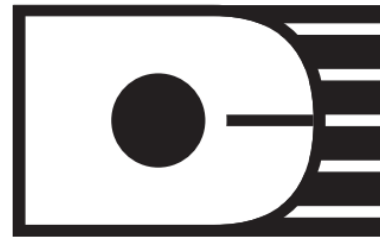
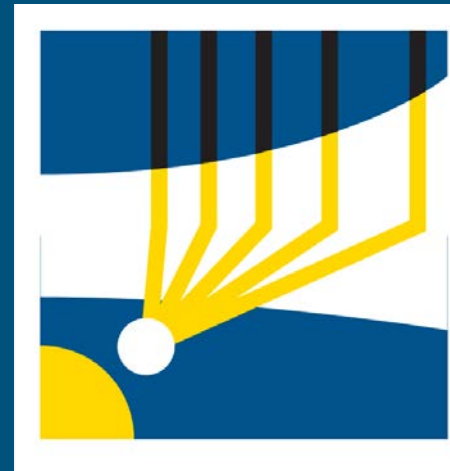
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100%
DATE
BY
JULY 2015
AS DISPLAYED
UNF DECISION THEATER
PLANNING
BUILDING
PORT RIDGE RESEARCH BUILDING
PORT RIDGE



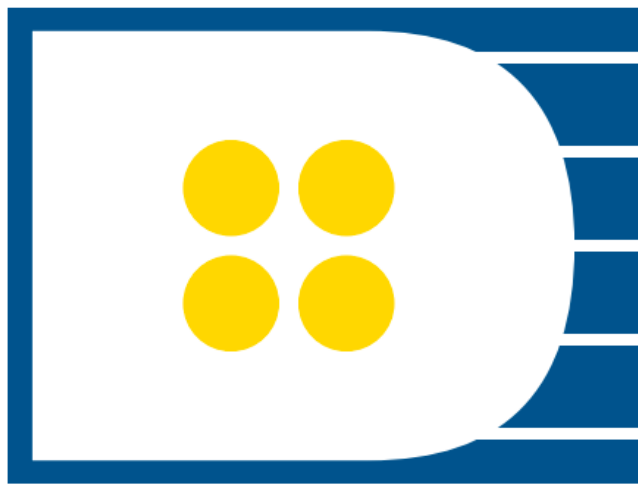




DECISION THEATER NORTH

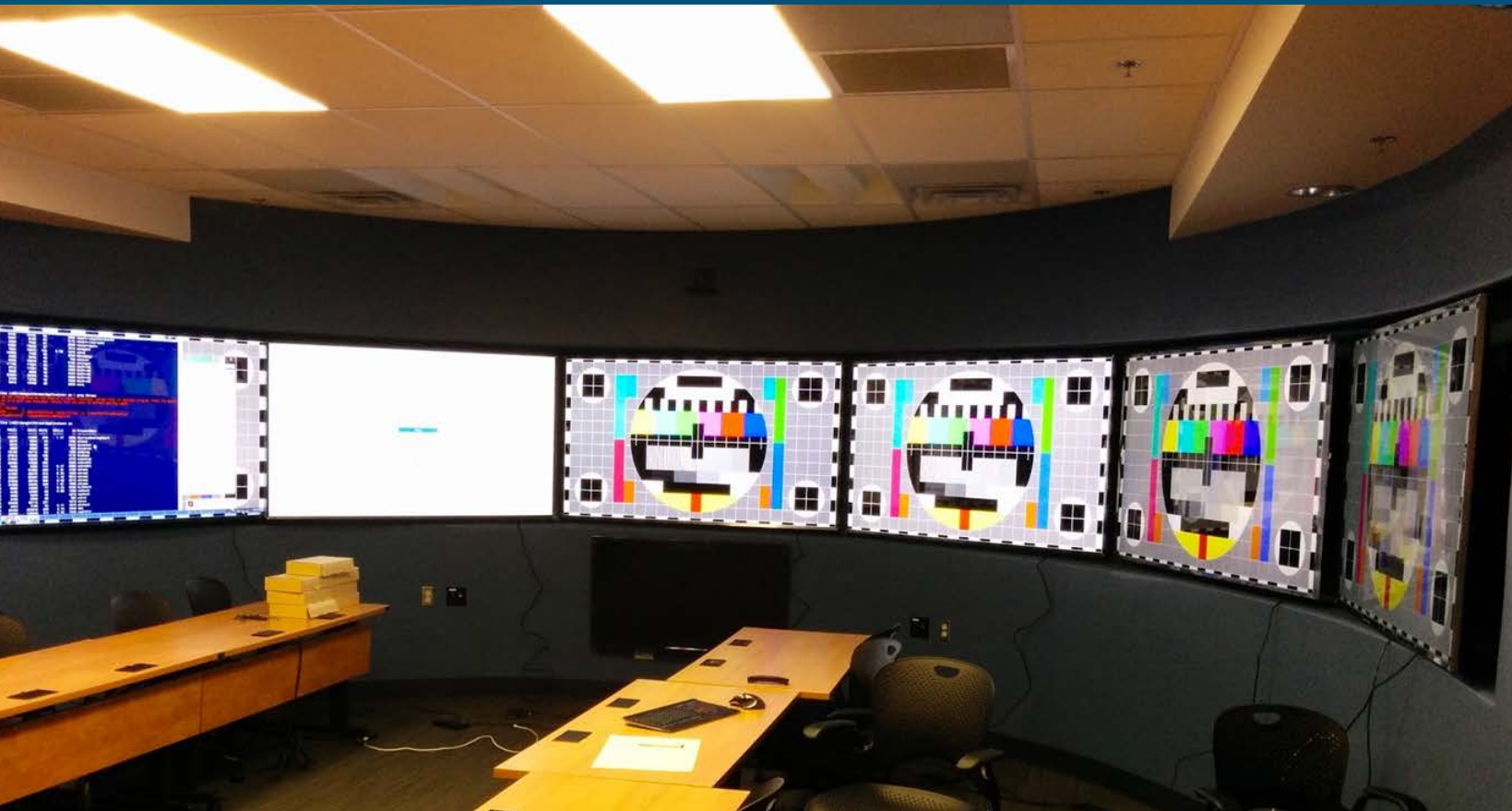


PRECISION THEATER NORTH

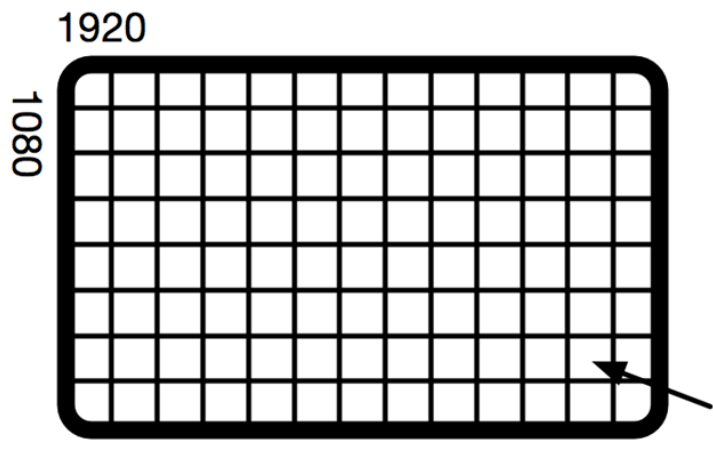


DECISION
THEATER
NORTH

DTN Tech Build Starts



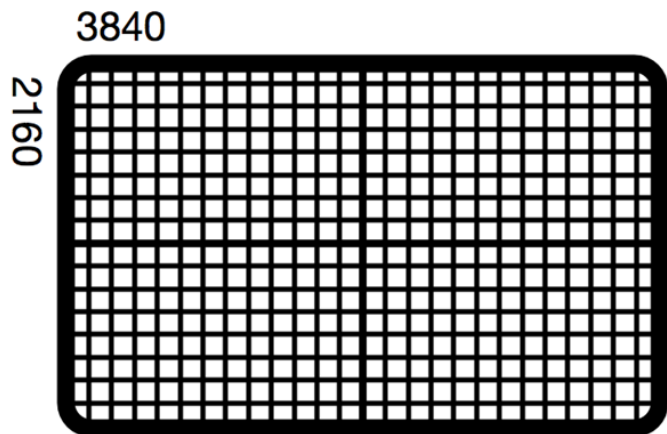




1080P

2.3 million pixels
per screen

single pixel



4K

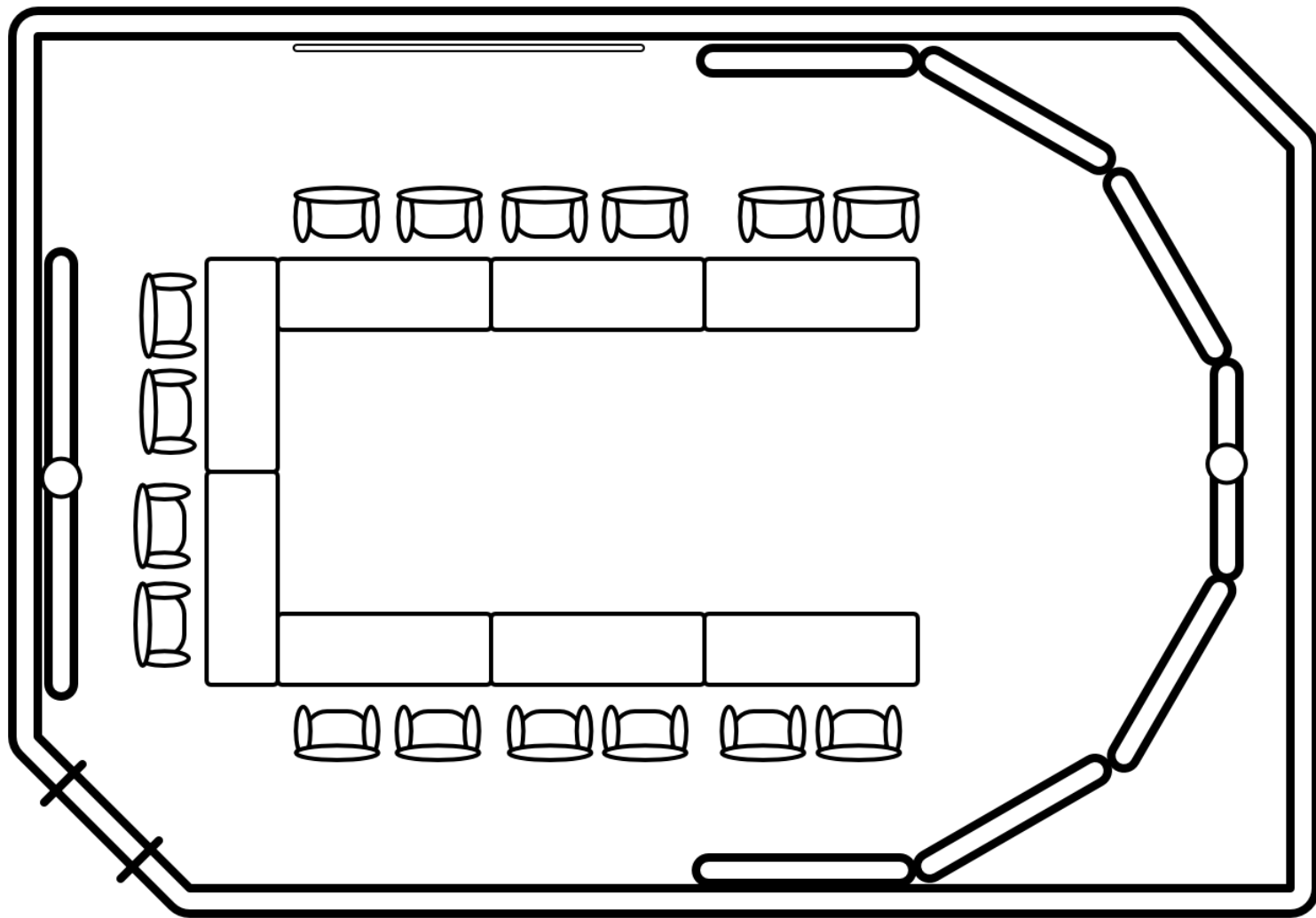
2160p
9.2 million pixels
per screen

x 7

14.5 million pixels
DTN Compatibility Mode
available now

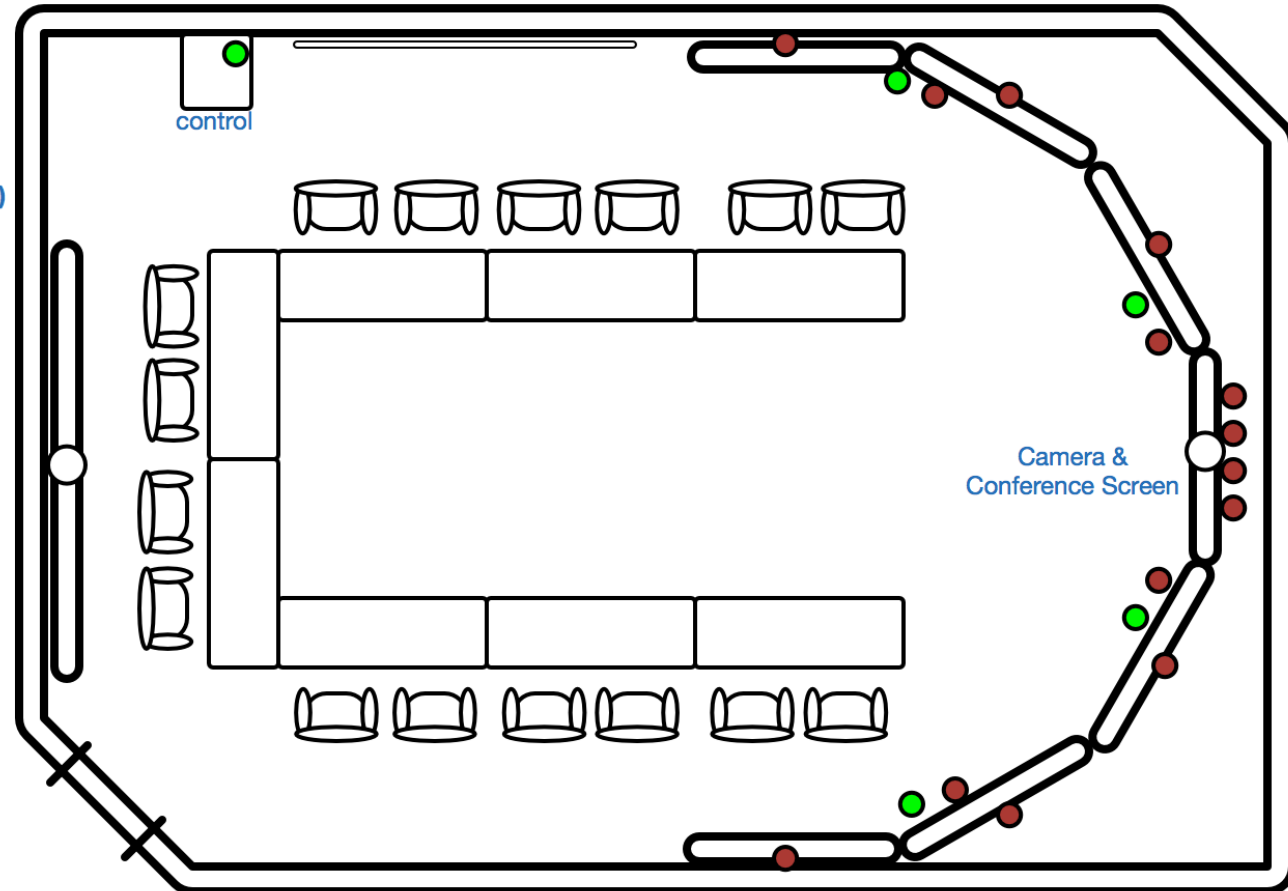
x 7

64 million pixels
Native Resolution Mode
future capability



- AV Plug
- power outlets (2)

Conference
System
with Camera



Side room
with AV & DTN
equipment Rack

20 Amp

Decision Theater North Components

lots of cool things

The focus: Seven DTN Screens

Upgrades

Future

next steps for DTN tech team

Finish tech build out of the
Decision Theater North

Setup the DTN development
room

Iterate on dev and production
platform

Improving backend
cyberinfrastructure connections
and capacity

DTN Mobile

— Gracefully integrate into IT
support team's capabilities

Future

Turn DTN into a decision
making platform for Alaska and
the Arctic

This is a platform for Data
Visualization - we need to learn
how to use it best - develop our
own FAQ and learn more from
ASU

Help researchers wrestle with this
new platform

Generate content (Mini-grants)

Integrate DTN capacity into
grants

Connect with PVT

Thanks Team!

Arizona State University
National Science Foundation
University of Alaska
University of Alaska Fairbanks

NSF Alaska EPSCoR ACE award
#OIA-1208927

University of Alaska Office of
Information Technology

UAF Facility Services

UAF Geophysical Institute

Research Computing Systems

Geographic Information Network of
Alaska

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Help us with making this mission a success

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Reducing window switching, **see detail & context** simultaneously [Czerwinski03, Ball05]

Helps **externalize the working memory** of teams [Andrews10]

Increases parallel processing amongst team members [Park03]

Improves **location memory** of information [Tan01]

Reduces gender performance gap in navigation tasks in VR [Tan03]

Perceptual scalability: helps user **performance keep pace** with increasing data size [Yost07]

Results in **greater confidence in conclusions** drawn when able to see all info at once [Ball05]

Users **begin to look for higher level patterns** & relationships (i.e. they start to look for the bigger picture) [Reda12]