



2019 ALDOT PRE-CONSTRUCTION CONFERENCE

TRANSITIONING TO

OPENROADS



BY

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WEST CENTRAL REGION

ENGINEERING SUPPORT ADMINISTRATOR

RESOURCES AND SOFTWARE ARE CONTINUOUSLY BEING
DEVELOPED AND EXPECTED EVERY QUARTER (ish)

ALDOT WORKSPACE IS DELIVERABLE TO CONSULTANTS,
CONTRACTORS, SURVEYORS AND ENGINEERS
EASILY LOADED AND EASILY FOLLOWED

PROPER USE OF ALDOT WORKSPACE ENSURES
AUTOMATIC AND FULL CAD COMPLIANCE

OUR GOAL IS TO HAVE THE DESIGN AND OTHER PROCESSES
SEAMLESS WITH EVERYONE USING THE SAME
CADD PLATFORM AND SHARING DATA BETWEEN
SUPPORTIVE SOFTWARE
FROM SURVEY TO FINAL CONSTRUCTION



IMPLEMENTATION STARTED OVER 3 YEARS AGO
BY DEVELOPING RESOURCES FOR
SURVEY AND LOCATION
TO TRANSITION
FROM TERRAMODEL TO ***OPENROADS***

INCLUDED A QUICK LAUNCH TO THE
CONSTRUCTION SURVEYING
FOR 3-D MODELING CONSTRUCTION PROJECT
(GORDO BYPASS)



TRANSITIONING AND CREATING RESOURCES FOR DESIGN,
PLANS

PRODUCTION, AND MODEL CREATION/SHARING

CREATING NEW WORKFLOWS FOR USERS AND DESIGNERS
WILL BE AN ONGOING PROCESS



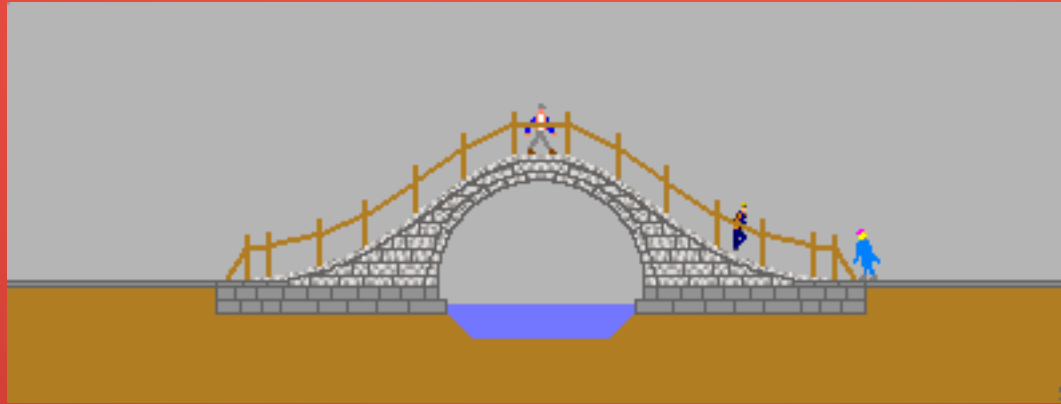
IMPLEMENTATION WILL REQUIRE A LOT OF CASCADE TRAINING
TO BE CONDUCTED BY LEADERS AND
WITH TRAINING SESSIONS PROVIDED THROUGH
THE ENGINEERING SUPPORT GROUP



IMPLEMENTATION INCLUDES RESOURCES FOR USE IN THE
SUDA PART OF ***OPENROADS***



CONTINUED TIES TO OTHER SECTION'S SOFTWARE SUCH AS
BRIDGE
GEOTECH



IMPLEMENTING THE SURVEY PORTION OF *OPENROADS*

WAS KEY TO THE TOTAL IMPLEMENTATION

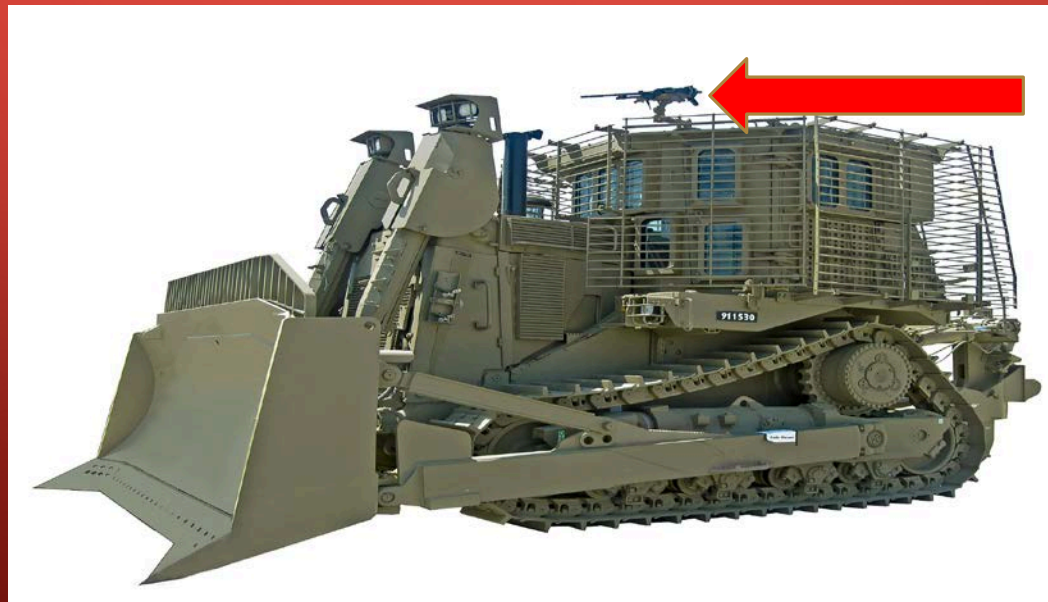
1. SURVEY DATA TO DESIGN FLOWS SEAMLESSLY
2. SURVEYED DRAINAGE PRODUCES THE EXISTING DRAINAGE MODEL
3. SURVEYED UTILITIES PRODUCES THE EXISTING UTILITY MODEL
4. AND OF COURSE, THE SURVEY PRODUCES THE EXISTING FEATURES MODELS AND TERRAINS.



IT ALL STARTS WITH A CLEAN SURVEY PROCESSED FOR USE IN
OPENROADS.

ALL OF THESE MODELS ARE CRITICAL IN THE DELIVERANCE
OF INFORMATION MODELS TO ALL SECTIONS UTILIZING THE
INFORMATION FOUND IN EACH MODEL ALONG WITH THE
DESIGN MODELS CREATED FROM THE EXISTING MODELS.

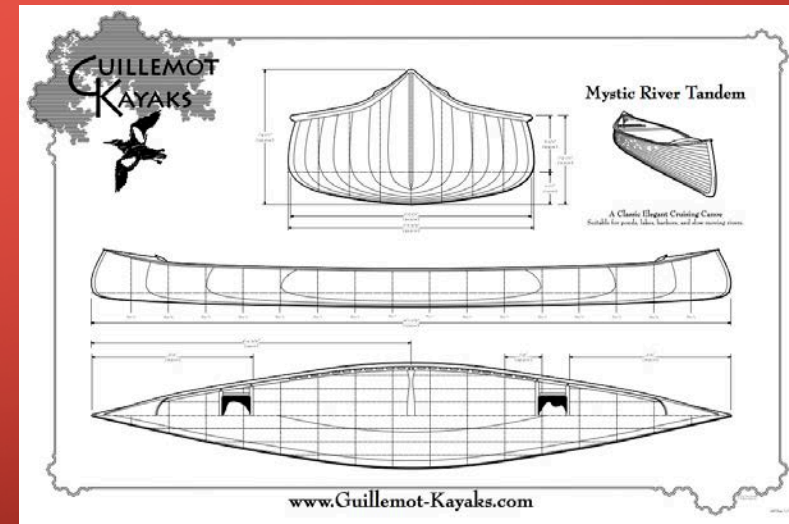
WITH THE ADVENT OF THE 3-D MODELLING PROGRAM WE
BECAME AWARE THAT ALL MODELS PRODUCED TO BE UTILIZED
IN
e-CONSTRUCTION WOULD REQUIRE THE UTMOST ACCURACY
WHEN CREATING THESE MODELS.



OUR MODELS MUST TELL THE MACHINES WHAT WE WANT
THROUGH THIS DATA.

A BULLDOZER CANNOT READ A PROJECT NOTE OR PAPER PLANS,
SO THE INFORMATION MUST BE CONTAINED IN THE MODELS.

OPENROADS ALLOWS US TO EASILY INCLUDE THIS
TYPE OF INFORMATION INTO OUR MODELS.



SOME OF THE TECHNIQUES BEING DEVELOPED

1. NEW WORKFLOW FOR CROSS SLOPE OPTIMIZATION AND LEVELING DERIVATION.
2. ADVANCED DRAINAGE PROFILE CREATION
3. ADVANCED DRAINAGE MODEL CREATION
4. NEW AUTOMATED PROCESSES FOR ANNOTATION OF PLANS SHEET BORDERS. (PLAN, PLAN/PROFILE, PROFILE, X-SECs, etc.
5. EARTHWORK SUMMARY AND COMPONENT QUANTITIES REPORTS.
6. INCORPORATING THE BRIDGE MODELS AND THE GEOTECH MODELS.



IMPLEMENTATION WILL BE AN ONGOING PROCESS

LEADERS NEED TO BE PROACTIVE IN GETTING THEIR PEOPLE
PROFICIENT WITH THE SOFTWARE

DON'T BE AFRAID TO ASK FOR HELP

1. CENTRAL OFFICE ENGINEERING SUPPORT STAFF
2. REGION ENGINEERING SUPPORT STAFF
3. LOCATION SUPPORT STAFF
4. YOUR SUPERVISOR
5. THE SMART ONE



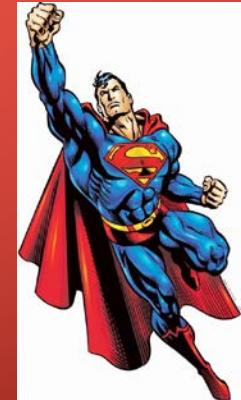
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QUESTIONS???????



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