



ARIZONA DEPARTMENT OF TRANSPORTATION'S
"PROJECT REFERENCE"

**AN ELECTRONIC, WEB-BASED, TECHNOLOGICAL TOOL THAT
REDUCES CONFLICT AND FACILITATES COLLABORATIVE
PROTECTION OF THE ENVIRONMENT**

ECR Conference
May 22, 2008

Session Objectives:

1. See how an environmental conflict was resolved through collaboration.
2. Understand the history and evolution of the resolution and its technological application.
3. Participate in a demonstration of an innovative technological tool that reduces conflict and facilitates collaborative protection of the environment.
4. Learn how such technological tools can be developed to match the needs of a particular environmental conflict and/or mission.
5. Explore the types of benefits Environmental Conflict Resolution (ECR) technological tools can offer.

Session Description:

Conflict between a federal land management agency (BLM) and a state department of transportation (Arizona DOT) led to the collaborative development of ADOT's "Project Reference," a cutting-edge, electronic, web-based, technological tool that reduces conflict between project stakeholders and facilitates collaborative protection of the environment. In an interactive panel setting, participants will learn about what inspired this tool and how it was collaboratively developed. Participants also will participate in a real time, online demonstration of this only recently affordable tool. Three experts will use real life scenarios and online examples in their presentations and responses to audience questions.

**ARIZONA DEPARTMENT OF TRANSPORTATION'S PROJECT REFERENCE
PRESENTATION FACULTY**

SAM ELTERS, STATE ENGINEER

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Sam Elters, P.E., with 22 years experience in Arizona, became State Engineer for ADOT in 2005. He oversees highway development, construction and maintenance programs. Before joining ADOT in 1999, he worked at the Mohave County Public Works Department for 14 years.

With a B.S. in Civil Engineering from Northern Arizona University and completion of the Advanced Public Executive Program at Arizona State University, he is a frequent speaker at international, national, state and local forums.

SCOTT PARKEY, DATA WAREHOUSE PROJECT LEAD

Arizona Department of Transportation – Information Technology Group
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Phoenix, AZ 85034
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Scott Parkey has served as the Team Lead for ADOT's Data Warehouse Project for the past 5 years helping to bring data, imagery, documents and other information into a single portal. He has also worked closely with ADOT's Office of Environmental Services and is a member of the Information Management Storm Water Advisory Team. Parkey has a BS in Management Information Systems from Purdue.

DEBRA DRECKSEL, FACILITATOR

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Debra Drecksel has worked in the field of organizational communication for 32 years. She has worked with government agencies and private parties as a facilitator, mediator, lawyer, public speaker and trainer. She is a long-time member of the USIECR's Roster of Neutrals. Drecksel has facilitated an ongoing collaboration out of which ADOT's Project Reference grew.

Drecksel has an Honors BA and MA in Communication and a J.D., all from the University of Utah.



ADOT PROJECT REFERENCE



HISTORY

- US93 / CANAMEX WICKENBURG TO KINGMAN
- 100+ MILES OF HIGHWAY
- MAJORITY ON PUBLIC LAND
- MUCH OF IT PRISTINE ENVIRONMENTAL HABITAT



INITIAL CONFLICT

- INVOLVING ADOT PROJECTS ON BLM MANAGED LAND
- IN 1990'S, INTERAGENCY CONFLICT LED TO COMMUNICATION CHALLENGES
- COMMUNICATION CHALLENGES LED TO PROJECT DELAY



ISSUES

- RIGHT OF WAY ACQUISITION
- MITIGATION
- SEEMING DISCONNECT BETWEEN PLANNING / DESIGN / CONSTRUCTION



NEEDS

1. ACCESS ALL KEY PROJECT DOCUMENTS EASILY
2. IMPROVED ORGANIZATION AND TEAMWORK
3. PROJECT SUMMARY IN LAY LANGUAGE (HELPS "OLOGISTS" UNDERSTAND PROJECT RELATIONSHIP TO ENVIRONMENT)



RESOLUTION

EARLY 2001:

- ADOT, BLM & FHWA
- HARD COPY DOCUMENT DISTRIBUTION SYSTEM

NOW:

- ALL ADOT PROJECTS
- ONLINE ELECTRONIC, PAPERLESS DOCUMENT AVAILABILITY SYSTEM



PROJECT REFERENCE SUBGROUP

BOB MILLER (Assistant State Engineer, Statewide Project Management)

LARRY DOESCHER (Project Manager)

VICKI BEVER (Project Manager)

ROXANNE TURNER (Kingman Right of Way)

LARRY LINDNER (Environmental Planner)

PAUL O'BRIEN (PreDesign Manager)

TIM WILSON (PreDesign)



DEFINITION

THE PROJECT REFERENCE IS SYSTEM FOR DOCUMENT . . .

- FILING
- TRACKING
- AVAILABILITY



DESIGNED FOR

- READY ACCESS TO DOCUMENTS
- TIMELY INFORMATION
- PROJECT ORGANIZATION AND TEAMWORK
- HISTORICAL PROJECT FILE



BENEFITS

- CENTRAL DOCUMENT LOCATION
- INCREASED EFFICIENCY
- CLARITY AND UNDERSTANDING
- POSITIVE WORKING RELATIONSHIPS
- ENVIRONMENTAL CONFLICT RESOLUTION
- ENHANCED CONTRIBUTIONS TO PROJECTS



INTERESTS BENEFITTED

- ENVIRONMENT
- PUBLIC (THROUGH BETTER INFORMED AGENCIES AND STAKEHOLDERS)
- PROJECT STAKEHOLDERS
- ADOT



DOCUMENT AREAS INCLUDED

- LINKS TO PLANNING AND LONG RANGE PLANS
- KNOWN INTERAGENCY AGREEMENTS
- **PROJECT SUMMARY**
- GUIDING DOCUMENTS
- **ENVIRONMENTAL DOCUMENTS**
- DESIGN DOCUMENTS
- ANCILLARY PERMITS AND AGREEMENTS
- CONSTRUCTION DOCUMENTS
- POST CONSTRUCTION PUNCH LIST



ACCESS TO PROJECT REFERENCE

- ADOT PERSONNEL:
INTRANET

- EXTERNAL STAKEHOLDERS:
INTERNET – Secure Website



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2.4	Ancillary Permits and Agreements
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Section 3	Appendix
3.1	List of All Known Agreements
3.2	Links to Planning and Long Range Plans
3.3	Project Reference Share (Templates)



Technology

- **Storage Area Network (SAN)** – High Capacity/Speed Disk Storage for Documents.
- **Microsoft SQL Server** - Database for Document Index Search.
- **MS IIS & ASP.Net (C#)** - Web (Intranet / Internet) Based User Interface.
- **PrimeOCR** – Optical Character Recognition Software for converting older image scanned documents into full-text searchable electronic documents.
- **Adobe PDF** – Most documents converted to Adobe PDF format for universal access via Adobe Acrobat Reader (free usage).



HOW YOU CAN DO SOMETHING SIMILAR



INITIATING THE PROCESS

1. IDENTIFY THE CONFLICT
2. USE A NEUTRAL THIRD PARTY TO FACILITATE:
 - COMMUNICATION
 - CONFLICT RESOLUTION
 - DEVELOPMENT OF TECHNOLOGICAL TOOL TO SUPPORT FUTURE COLLABORATION



DEVELOPING YOUR TECHNOLOGICAL TOOL

1. INVOLVE APPROPRIATE STAKEHOLDER REPRESENTATIVES IN:
 - IDENTIFYING NEEDS
 - DEVELOPING TOOL CONTENT
2. INVOLVE INFORMATION TECHNOLOGY (IT) STAFF TO WRITE PROGRAMS TO SUPPORT TECHNOLOGICAL TOOL



IMPLEMENTING YOUR TECHNOLOGICAL TOOL

1. TRAIN TOOL USERS
2. USE A PROJECT MANAGER FOR TOOL OVERSIGHT, ONGOING TRAINING & CONTINUOUS IMPROVEMENT

