Update to State Committee - June 18, 2012

iUTAH EPSCoR Track-1 Project

Start date: July 1, 2012 (length is 5 years)

**PIs: Todd Crowl, Michelle Baker, Doug
     Jackson-Smith (USU)
     Jim Ehleringer, Diane Pataki (UU)**

Associate Project Director: Rita Teutonico

iUTAH$_{2011}$

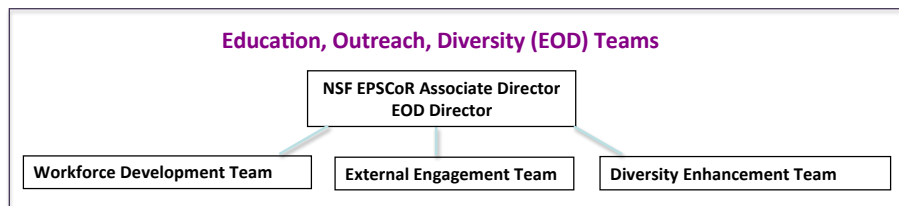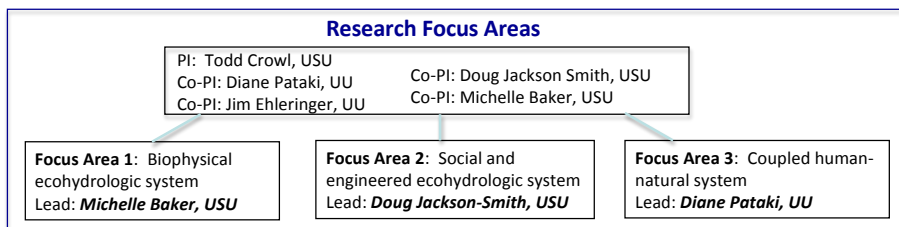## *innovative* Urban Transitions and Aridregion Hydro-sustainability

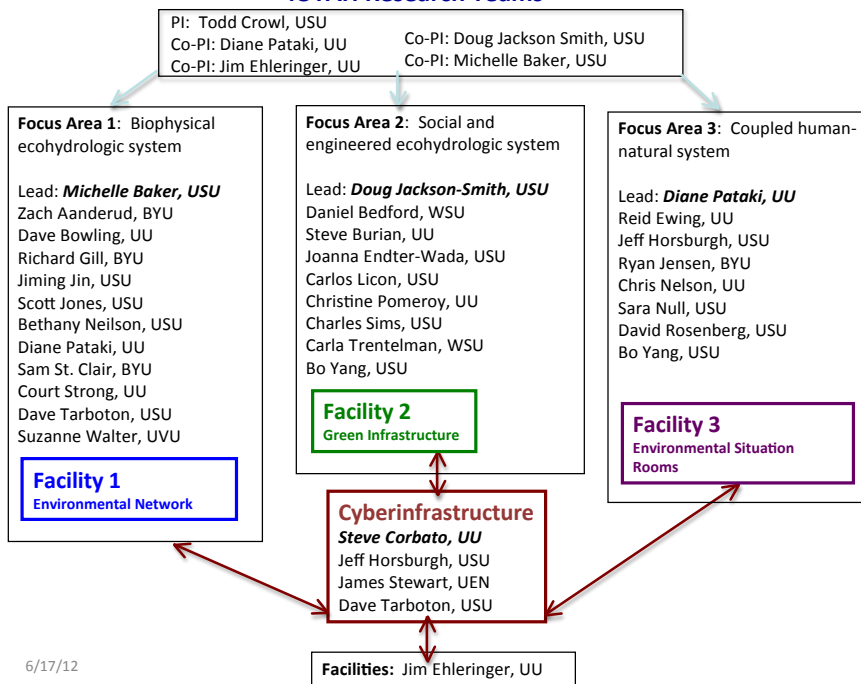Exploring how population growth, changing climate, and land use affect water sustainability

What will we be doing over the next 5 years?

The purpose of the Research Infrastructure Improvement Program: Track 1 (RII Track-1) is to provide support for sustainable improvements in a **jurisdiction's** academic research infrastructure, that is, its research capacity in identified areas of **research and education** in science and engineering that are supported by the NSF.
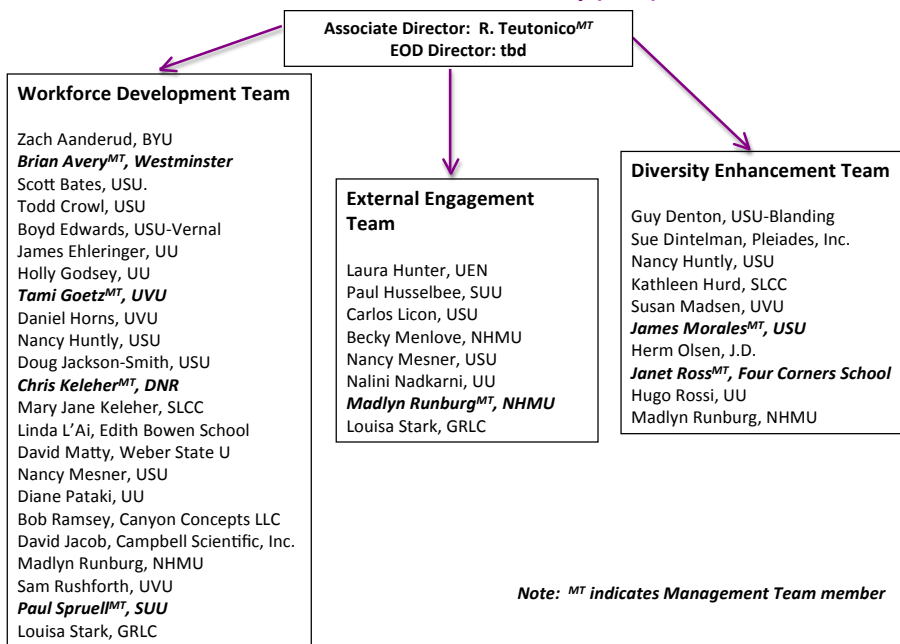
RII Track-1 activities build the core infrastructure needed to develop **collaborative efforts** for the successful pursuit of significant jurisdictional and regional opportunities in science and engineering.

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iUTAH Management Team[MT]

PI: Todd Crowl, USU
Co-PI: Diane Pataki, UU
Co-PI: Jim Ehleringer, UU
Co-PI: Doug Jackson Smith, USU
Co-PI: Michelle Baker, USU
Assoc. Director: R. Teutonico, USU

Zach Aanderud, BYU
Brian Avery, Westminster
Dan Bedford, Weber St
Tami Goetz, UVU
Chris Keleher, UDNR

James Morales, USU
Paul Spruell, SUU
Janet Ross, Four Corners School
Madlyn Runburg, NHMU

Research Focus Areas

PI: Todd Crowl, USU
Co-PI: Diane Pataki, UU
Co-PI: Jim Ehleringer, UU

Co-PI: Doug Jackson Smith, USU
Co-PI: Michelle Baker, USU

Focus Area 1: Biophysical ecohydrologic system
Lead: *Michelle Baker, USU*

Focus Area 2: Social and engineered ecohydrologic system
Lead: *Doug Jackson-Smith, USU*

Focus Area 3: Coupled human-natural system
Lead: *Diane Pataki, UU*

Education, Outreach, Diversity (EOD) Teams

**NSF EPSCoR Associate Director
EOD Director**

| Workforce Development Team | External Engagement Team | Diversity Enhancement Team |

iUTAH Research Teams

PI: Todd Crowl, USU
Co-PI: Diane Pataki, UU
Co-PI: Jim Ehleringer, UU
Co-PI: Doug Jackson Smith, USU
Co-PI: Michelle Baker, USU

Focus Area 1: Biophysical ecohydrologic system

Lead: **Michelle Baker, USU**
Zach Aanderud, BYU
Dave Bowling, UU
Richard Gill, BYU
Jiming Jin, USU
Scott Jones, USU
Bethany Neilson, USU
Diane Pataki, UU
Sam St. Clair, BYU
Court Strong, UU
Dave Tarboton, USU
Suzanne Walter, UVU

Facility 1
Environmental Network

Focus Area 2: Social and engineered ecohydrologic system

Lead: **Doug Jackson-Smith, USU**
Daniel Bedford, WSU
Steve Burian, UU
Joanna Endter-Wada, USU
Carlos Licon, USU
Christine Pomeroy, UU
Charles Sims, USU
Carla Trentelman, WSU
Bo Yang, USU

Facility 2
Green Infrastructure

Focus Area 3: Coupled human-natural system

Lead: **Diane Pataki, UU**
Reid Ewing, UU
Jeff Horsburgh, USU
Ryan Jensen, BYU
Chris Nelson, UU
Sara Null, USU
David Rosenberg, USU
Bo Yang, USU

Facility 3
Environmental Situation Rooms

Cyberinfrastructure
Steve Corbato, UU
Jeff Horsburgh, USU
James Stewart, UEN
Dave Tarboton, USU

Facilities: Jim Ehleringer, UU

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iUTAH Education, Outreach, Diversity (EOD) Teams

Associate Director: R. Teutonico[MT]
EOD Director: tbd

Workforce Development Team

Zach Aanderud, BYU
Brian Avery[MT], Westminster
Scott Bates, USU.
Todd Crowl, USU
Boyd Edwards, USU-Vernal
James Ehleringer, UU
Holly Godsey, UU
Tami Goetz[MT], UVU
Daniel Horns, UVU
Nancy Huntly, USU
Doug Jackson-Smith, USU
Chris Keleher[MT], DNR
Mary Jane Keleher, SLCC
Linda L'Ai, Edith Bowen School
David Matty, Weber State U
Nancy Mesner, USU
Diane Pataki, UU
Bob Ramsey, Canyon Concepts LLC
David Jacob, Campbell Scientific, Inc.
Madlyn Runburg, NHMU
Sam Rushforth, UVU
Paul Spruell[MT], SUU
Louisa Stark, GRLC

External Engagement Team

Laura Hunter, UEN
Paul Husselbee, SUU
Carlos Licon, USU
Becky Menlove, NHMU
Nancy Mesner, USU
Nalini Nadkarni, UU
Madlyn Runburg[MT], NHMU
Louisa Stark, GRLC

Diversity Enhancement Team

Guy Denton, USU-Blanding
Sue Dintelman, Pleiades, Inc.
Nancy Huntly, USU
Kathleen Hurd, SLCC
Susan Madsen, UVU
James Morales[MT], USU
Herm Olsen, J.D.
Janet Ross[MT], Four Corners School
Hugo Rossi, UU
Madlyn Runburg, NHMU

Note: [MT] indicates Management Team member

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Big Picture Priorities

Year 1 -   Develop iUTAH and state EPSCoR Office and Staff

Watershed Observatories - design, install monitoring instruments, data flow and storage

Establish EOD teams, objectives and timelines

Internships, REUs, Museum Partnerships

Satisfy NSF requirements

Year 2 - Watershed Observatories – must be fully integrated and functioning, including urban and social components

Begin scoping Green Infrastructure

Summer Institute

all EOD activities

NSF and assessment meetings

Big Picture Priorities

Year 3 - Watershed Observatories - Data & Modeling capabilities fully operational

EOD activities fully engaged

Summer Institute

Green Infrastructure Facility completed and integrated with EOD and other research

Environmental Situation Rooms Scoped

NSF reverse site visit

Big Picture Priorities

Year 4 - Watershed Observatories - fully integrated

Green Infrastructure - fully integrated

Summer Institute

all EOD activities

Environmental Situation Rooms - functional

NSF site visit; Assessment team evaluation

EPSCoR II planning begins

iUTAH EPSCoR 2012-2013 Timeline

May	Award DD concurred
June	Award Letter to USU
June	Initial Activity 1, 2 & 3 meetings; (June 1 - activities 1 & 2)
June	Initial institution update meetings UofU, USU completed; BYU, WSU & UVU over the next month
July 1, 2012	Official start date
July	Sub-contracts processed
July 12	EOD kickoff meeting
mid, late July	All hands celebration and kickoff meeting
July 15, 2012	Open iUTAH EPSCoR USTAR Offices USU complete; UU-??????
July 31, 2012	PhD GRA applications due. PIs will finalize appointments by beginning of fall semester

Graduate student RAships will be

available for the 2012-2013 year

See announcement indicating a solicitation for Ph.D. graduate student RAships to begin in August 2012. These RA positions will be for one year, but maybe renewed. The positions may only be used for activities directly related to iUTAH.

Students will compete for these positions which may be used for stipend support in the Fall 2012, Spring 2013, and/or Summer 2013 semesters.

This announcement will be broadcast broadly to also reach Ph.D. students beyond the student pool that is associated with faculty listed earlier under Activities 1, 2, and 3, Communications and CI.

iUTAH EPSCoR 2012-2013 Timeline

Sept. 1, 2012	Individual participants (from all institutions) submit finalized scopes of work and deliverables for 2012-2013 to Crowl
Sept. 10, 2012	PIs and team leads meet with External Advisory Board
No later than Sept. 30, 2012	Assessment/NSF strategic planning meeting - All required to attend (including a revised education plan)
Nov. 15, 2012	Final watershed designs
No later than Nov. 30, 2012	***Strategic Plan, State S&T Plan and State EPSCoR bylaws due to NSF*** *including individual Scopes of Work with roles, responsibilities and deliverables*
Jan. 1, 2013	First semi-annual reporting due
March 1, 2013	Second semi-annual reporting due Final individual reports due with estimates for 4th quarter
April 1, 2013	80% of budget must be obligated;

The reporting process is complex and requires a structure be maintained

Institution or RII Totals	Category	Total Individuals in category	Male	Female	Blacks or African Americans	Hispanics	Other Ethnic	Persons with Disabilities	New Investigators*
Institution A	Faculty participants (or equivalent)								
	Technical support staff								
	Non-technical support staff								
	Post docs								
	Graduate students								
	Undergraduate students								
	RII Leadership Team								
Institution B	Faculty participants (or equivalent)								
	Technical support staff								
	Non-technical support staff								
	Post docs								
	Graduate students								
	Undergraduate students								
	RII Leadership Team								
Institution C	Faculty participants (or equivalent)								
	Technical support staff								
	Non-technical support staff								
	Post docs								
	Graduate students								
	Undergraduate students								
	RII Leadership Team								
RII total	Faculty participants (or equivalent)								
	Technical support staff								
	Non-technical support staff								
	Post docs								
	Graduate students								
	Undergraduate students								
	RII Leadership Team								
	Advisory Board(s)								

Contact information

Todd Crowl (PI), facrowl@gmail.com

Rita Teutonico (State EPSCoR), rita.teutonico@usu.edu
Michelle Baker, Michelle.baker@usu.edu
Doug Jackson-Smith, doug.jackson-smith@usu.edu
Diane Pataki, diane.pataki@uu.edu
James Ehleringer, james.ehleringer@uu.edu

A directory of participant, photos, and brief bios will be constructed and made available to all between now and September 30th.

UTAH EPSCoR Structure

USTAR

State Committee

State EPSCoR Director — Admin

NSF **Director** *
Track I PI

DOE*
Director

NASA*
Director

*The Lead PI of the EPSCoR
Track 1 Project is an *ex officio*
State Committee member

NSF Committee
C2 PI
CI PI

Outreach & Workforce Committees

**Public Ed, Regional universities and Informal Ed, UDWS,
UMNH, UEN, Utah Futures, The Leo, etc**

UTAH NSF Committee Activities

April, 2012	Initiated bi-weekly conference call Winters, Teutonico, Corbato, Jones, Crowl
May 2012	Completed UTEPSCoR.org transfer (to UEN) State Logo chosen and completed
June 2, 2012	State website launched by UEN
June, 2012	In collaboration with Hawaii, New Mexico, Alaska and New Hampshire EPSCoR Programs, established a web-based reporting approach using the DRUPAL information management platform. New Mexico has agreed to transfer their software designed for NSF reporting structures Crowl and Kelly co-chairs of the web-based reporting working group;
Sept. 30, 2012	Workshop proposal due to NSF (Crowl and Kelly, Co-PIs)

UTAH NSF Committee Activities

May, 2012   NSF PI/PD/PA meeting, DC
                   (ppts available at NSF.GOV/EPSCOR/)

                   upcoming EPSCoR reviews
                             NAS - current committee makeup lacking
                             NSF sanctioned review - data intensive
                             2030 Review available (posted on website)

                   New procedures for NSF outreach - now coordinated through
                             NSF EPSCoR outreach Coordinator (Martha
                             (James)

                             Handout posted on website