



Carl Zichella, EDTF Chair

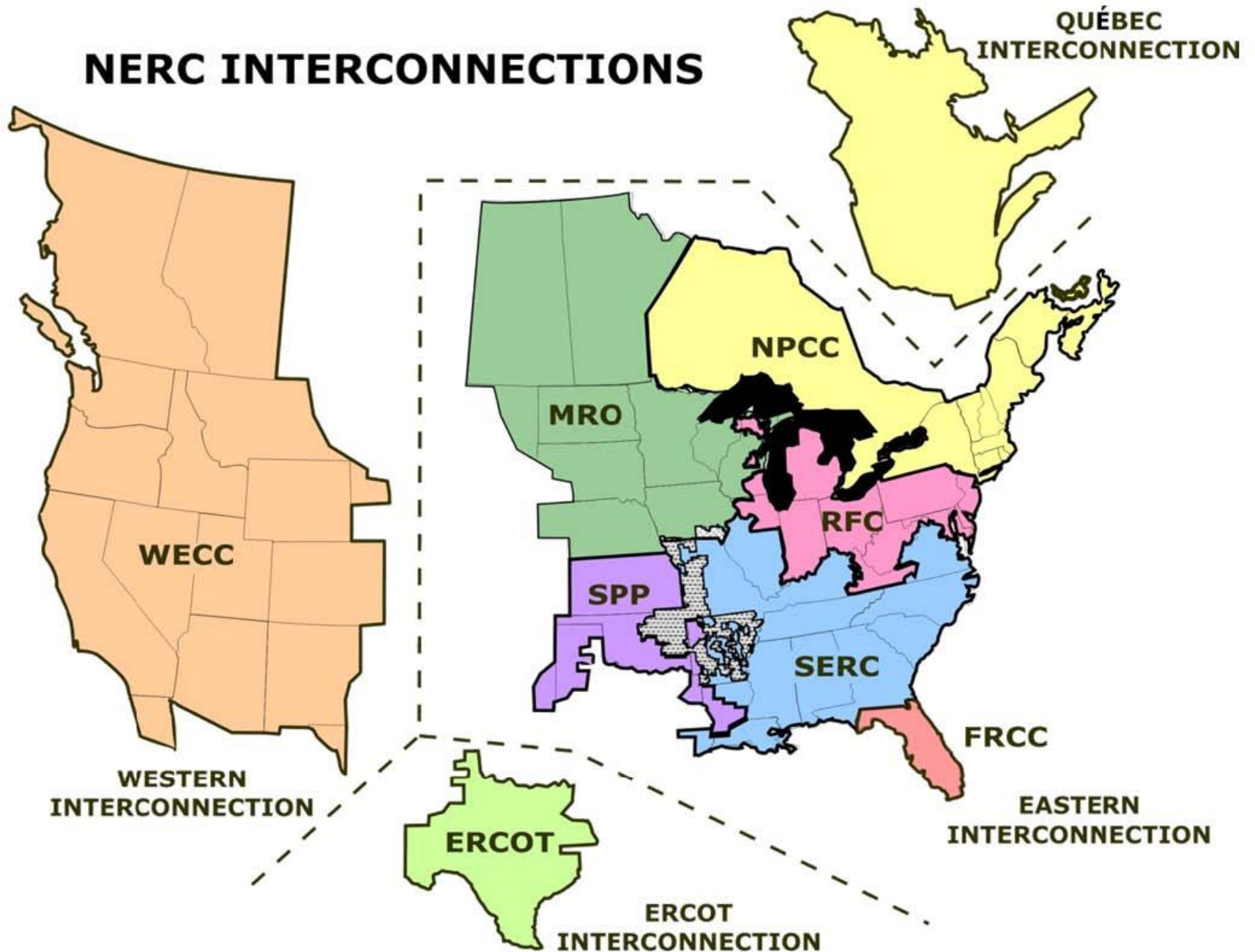
Environmental Data Task Force

October 2, 2012
WGA Siting Meeting

Presentation Outline

1. WECC and Regional Transmission Planning
2. Overview of the EDTF
3. EDTF Products for Regional Transmission Planning
4. Benefits of the EDTF's Work

NERC INTERCONNECTIONS



Regional Transmission Expansion Planning

- **Long-term planning to address regional transmission needs**
- **Stakeholder driven process**
 - Collaboration with industry, tribes, government, NGOs
- **Considers a variety of factors**

Environmental and Cultural Factors

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***One piece of the
regional
transmission
planning puzzle***



Overview of the EDTF

Goal

Develop recommendations to incorporate information on land, wildlife, cultural, historical, archaeological, and water resources into the transmission planning process

Overview of the EDTF

Products for Regional Transmission Planning:

- A. Environmental/Cultural Datasets
- B. Risk Classification System
- C. Comparison Process

A. Environmental /Cultural Datasets

- **Inventory of publically available data**
- **Vetted for use in transmission planning**
 - Includes WGA CHATs
- **Online, biennial stakeholder-driven update process**
 - Winter 2012/Spring 2013

	Time	Latitude	Longitude	UserName	Mammal	Male	F
1	15:03:16	-33.87900	18.59795	Carke	Elephant	1	
2	15:03:56	-33.87930	18.59792	Henk	Kudu		4
3	15:04:12	-33.87850	18.59862	Henk	Kudu		4
4	15:04:32	-33.87840	18.59887	Henk			
5	15:04:56	-33.87840	18.59885	Louis			
6	15:05:30	-33.87830	18.59890	Louis	Lion	1	2
7	15:05:50	-33.87830	18.59892	Louis			
8	15:06:12	-33.87830	18.59890	Carke			
9	15:06:35	-33.87830	18.59888	Carke			
10	15:07:15	-33.87840	18.59880	Henk	Porcupine		6
11	15:07:55	-33.87840	18.59883	Henk	Zebra	1	5
12	15:09:45	-33.87760	18.59912	Louis	Giraffe	1	1
13	15:10:07	-33.87740	18.59912	Louis			
14	15:10:53	-33.87820	18.59920	Henk			
15	15:11:41	-33.87810	18.59920	Louis	Wildebeest	1	9

Selection 2000-11-14 15:03:16 -33.8790, 18.5980 1 of 15

B. Risk Classification System

- **“Areas Types” relevant to transmission planning**
 - Protected Areas (Wilderness Areas, Wildlife Refuges)
 - Wildlife Habitat (crucial winter range, ESA species)
 - Cultural and historic (NRHP sites, tribal sacred sites)
- **Area Types are assigned “Risk Categories”**

What is the level of risk for transmission?



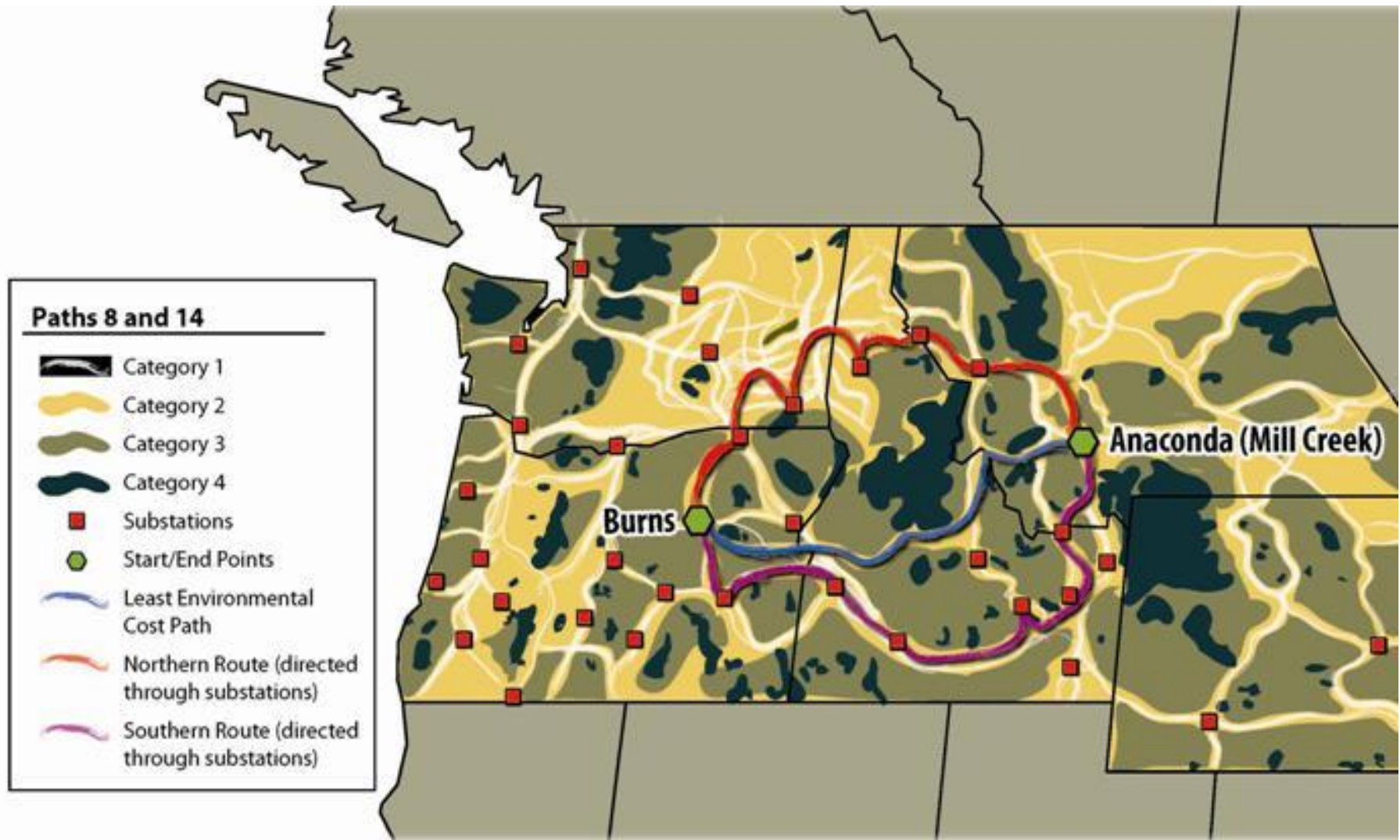
Assigning **Risk Categories** to **Area Types** results in a seamless data layer for use in transmission planning



C. Comparison Process

- **Predicts levels of env./cultural risk for transmission development**
- **Available for use by WECC, developers, agencies/planners**
- **No compliance expectations; no requirements for use**

C. Comparison Process



Comparison Process – How does it work?

- **Comparison Process Inputs**

- Env./Cultural Data Sets
- Risk Categories

- **Run Comparison Process**

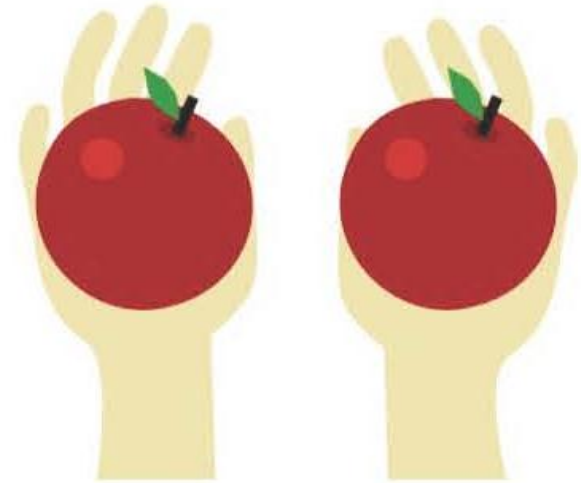
- Review outputs from WECC planning tools
- Develop “Risk Scores” and review with stakeholders

- **Publish the results**

Benefits of the EDTF's Work

■ **Regional Transmission Planning**

- Consistent method for considering env./cultural data
- Identify risks early in the process (avoid surprises!)
- Easy to understand process



Benefits of the EDTF's Work: Other Planning or Siting Processes ?

- **Starter list of env./cultural data**
 - Update with local, siting level data!
- **Method to compare alternatives at other level of planning or siting?**
 - Adapt process to fit regional/local planning?
 - Xcel Energy pilot test