Gap Analysis of CRT-Plus Query Mechanism

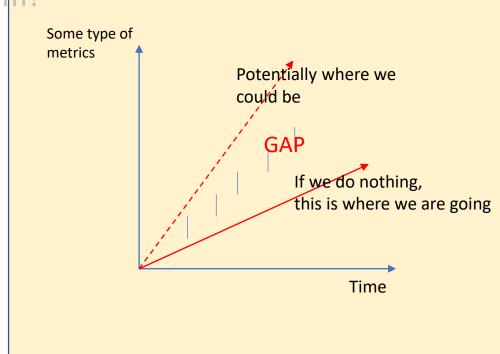
Arif Albayrak & Bill Teng
ADNET Systems (at NASA GES DISC)

Definition

- Actual Performance vs. Desired Performance
 - Where are we now?
 - Where do we want to be?
 - Where are the gaps and how can we close them?

Definition

- Actual Performance versus Desired Performance
 - Where are we now?
 - Where do we want to be?
 - Where are the gaps and how can we close them?
- Drilling down
 - Why the gaps?
 - Do we need customized approach?



U.S. Climate Resilience Toolkit Documents







Case Study Metadata Template

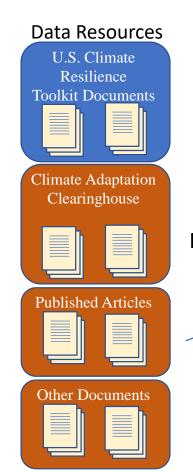
See published examples at https://toolkit.climate.gov/taking-action

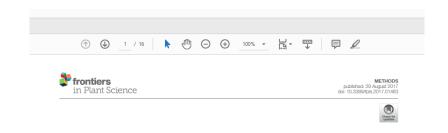
Thank you for suggesting a case study for the U.S. Climate Resilience Toolkit. Case studies are leder as realized for suggesting a case study for the U.S. Climate 400-800 words) highlighting examples of real people or communities who build resilience.

THIS DOCUMENT IS A FILLABLE FORM. To complete it, you must download and open it in a non-browser application, such as Adobe Acrobat or required fields are indicated with an asterisk). Include optional informatic

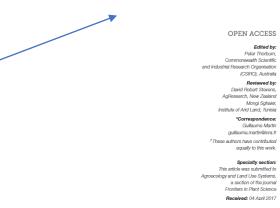
Case Study Metadata Template

d be submitted via email to <u>resilience@aia.org</u>		See published examples at https://toolkit.climate.gov/taking-action	
ntributor's Name and Contact Information		* Geographic Region Choose one.	* Climate Threat or Stressor Check all that apply.
gested Story Title		Northeast Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, West Virginia, and the District of Columbia	☐ Drought ☐ Extreme precipitation
rrative	Please provide the Consult the Tips for information and gu	Southeast and Caribbean Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, Puerto Rico, and the U.S. Virgin Islands	☐ Increased temperatures (warming) ☐ Temperature extremes (heat/cold)
mmary of Climate Stressor ne to three sentences, introduce the "protagonist" and :limate-related impact or impacts they face.		Midwest Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Ohio, and Wisconsin	☐ Flooding (inland/riverine) ☐ Sea level rise/storm surge
nmary of Asset Impacted ne to three sentences, describe the key asset or assets		Great Plains Kansas, Montana, Nebraska, North Dakota, Oklahoma, South Dakota, Txas, and Wyoming Southwest	 Extreme events (fire, storms, hurricanes, tornadoes Changing ocean conditions
numary of Action and Outcome vo to four sentences, describe the action or actions n and any results, benefits, and/or lessons learned.		Arizona, California, Colorada, Nevada, New Mexico, and Utah Northwest Idaho, Oregon, and Washington Alaska Hawal'i	☐ Changes in growing seasons ☐ Reduced sea ice, permafrost, and snow ☐ El Niħo/La Niħa/climate variability
eral Tools and Services Used key federal climate resources used in the action taken cribed above), and how they were used.		National State County *Tools	General climate change
iginal Source ils story was adapted or excerpted from a previousl owing information. We will provide appropriate att urce Title		List up to five (5) tools used in this case study. Check the box if the tool at toolkit.climate.gov/tools). If the tool is new and should be submit a separate, completed Tool Template. Tool Name	
RL.			
		Tool Name	
		Tool Name Tool Name	





Example of a published paper



An Integrated Method to Analyze Farm Vulnerability to Climatic and **Economic Variability According to** Farm Configurations and Farmers' **Adaptations**

Guillaume Martin1*f, Marie-Angélina Magne1f and Magali San Cristobal23

¹ AGIR, Université de Toulouse, INPA, INPT, INP-EI PURPAN, ENSFEA, Castanet-Tolosan, France, ² GenPhySE, Université de Toulouse, INRA, INPT, INP-ENVT, Castanet-Tolosan, France, 3 INRA, UMR 1201 Dynafor, Castanet-Tolosan, France

The need to adapt to decrease farm vulnerability to adverse contextual events has been extensively discussed on a theoretical basis. We developed an integrated and operational method to assess farm vulnerability to multiple and interacting contextual changes and explain how this vulnerability can best be reduced according to farm configurations and farmers' technical adaptations over time. Our method considers farm vulnerability as a function of the raw measurements of vulnerability variables (e.g., economic efficiency of production), the slope of the linear regression of these measurements over time, and the residuals of this linear regression. The last two are extracted from linear mixed models considering a random regression coefficient (an intercept common to all farms), a global trend (a slope common to all farms), a random deviation from the general mean for each farm, and a random deviation farm vulnerability is obtained through a combination of high values of measurements, a stable or increasing trend and low variability for all vulnerability variables considered Our method enables relating the measurements, trends and residuals of vulnerability variables to explanatory variables that illustrate farm exposure to climatic and economic Frontiers in Plant Science variability, initial farm configurations and farmers' technical adaptations over time. We Received: 04 April 2017 applied our method to 19 cattle (beef dainy and mixed) farms over the period 2008-

Problem: Different types of data sets

Each data set has a different format.

OPEN ACCESS

Commonwealth Scientific

AgResearch, New Zealand

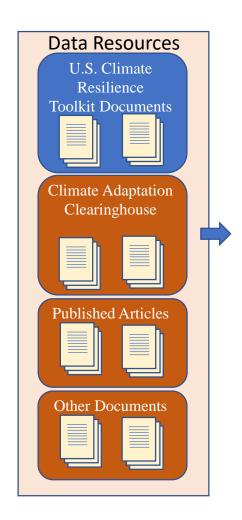
nstitute of Arid Land, Tunisia

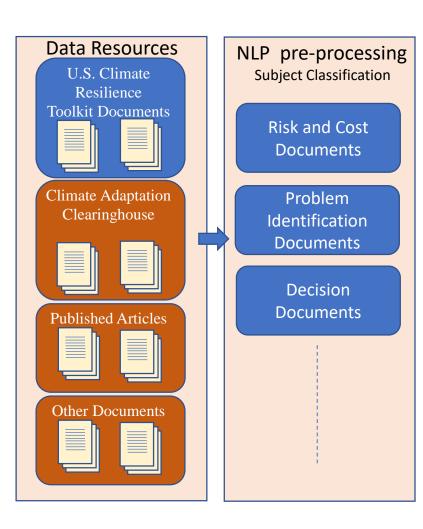
equally to this work.

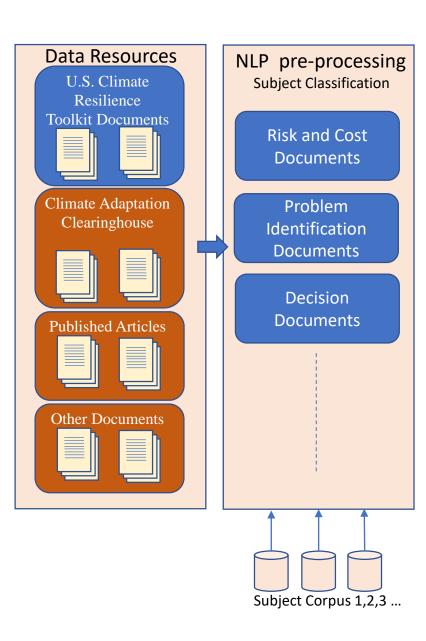
a section of the journal

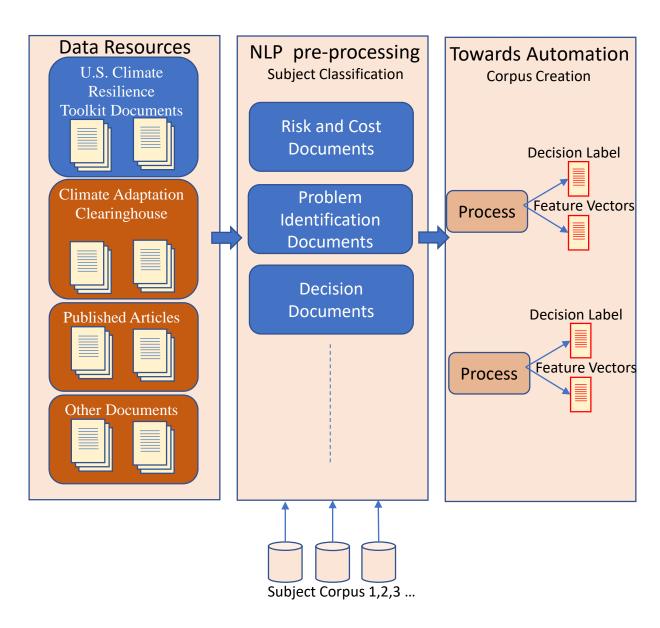
(CSIRO), Australia

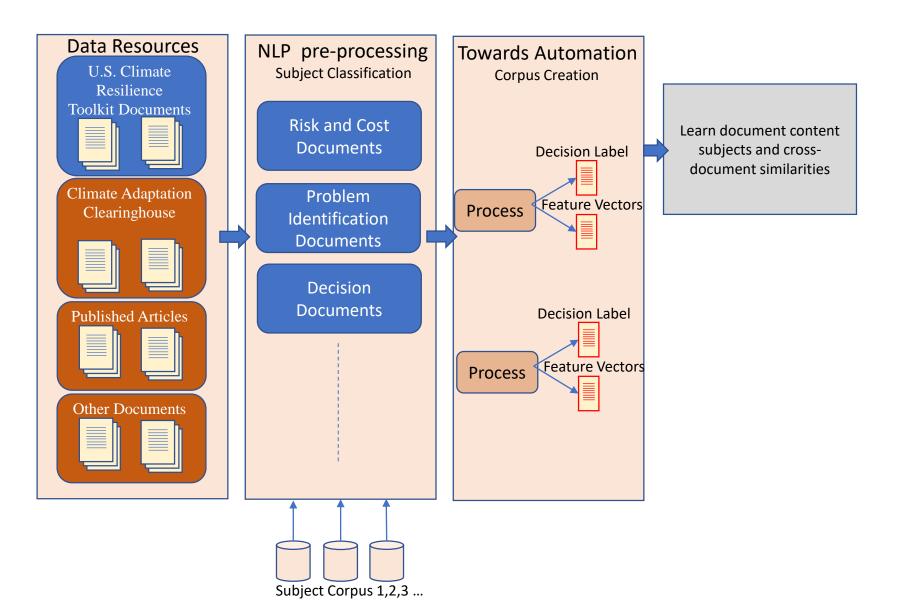
- Some of the documents concentrate on decisions, others technical, etc.

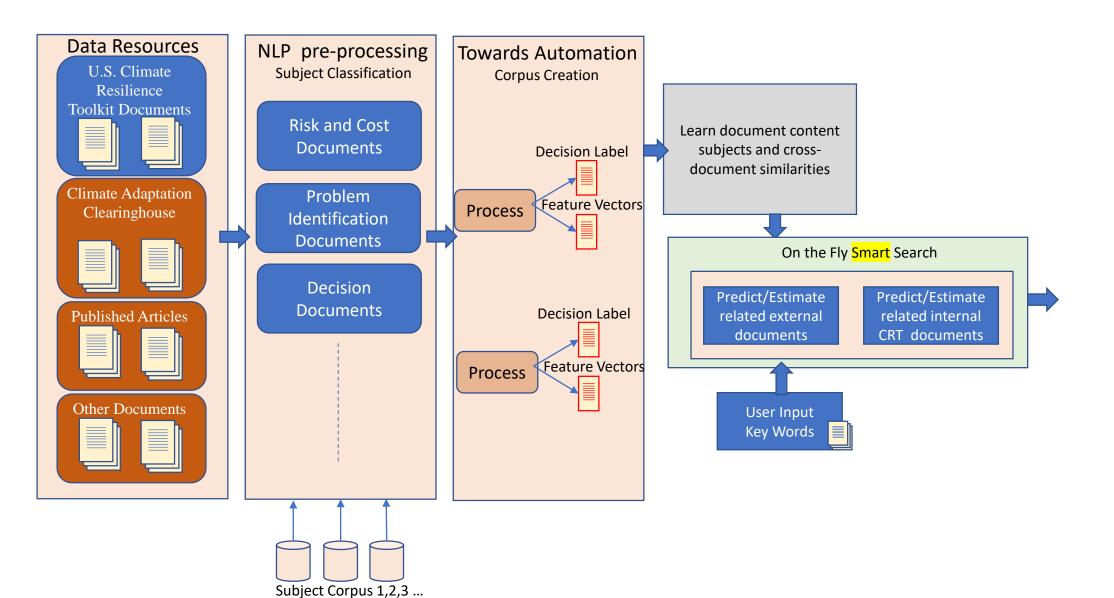


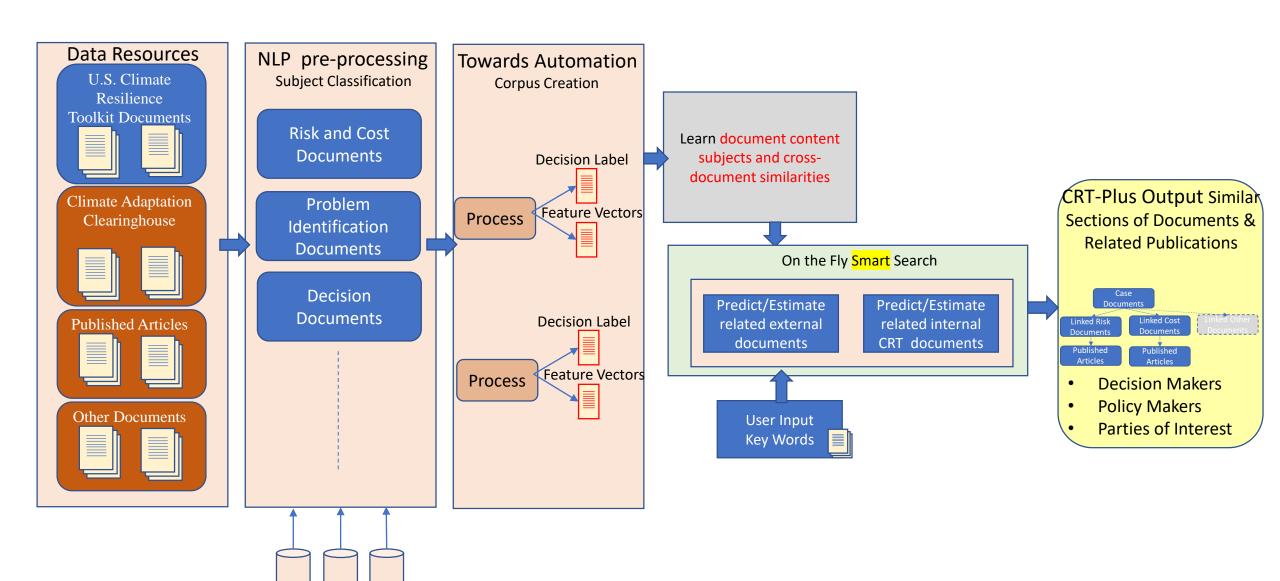












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