# **COMMUNITREE: Stakeholder Relationships and Desired Outcomes** for Collaborative Tree Planting

#### ABSTRACT

CommuniTree is a new, multi-organization, community urban forestry partnership that engages in tree planting in under served, post-industrial Northwest Indiana communities. In addition to providing free trees and maintenance to communities, the grant-funded partnership provides training in urban forestry practices to a crew of young adults from the Student Conservation Association. Individuals at 11 stakeholder organizations were interviewed to document their role with, motivations for involvement in, and desired outcomes for CommuniTree, as well as how they envision the program evolving in the future. We found that stakeholder contacts were already involved in other forestry projects with CommuniTree's point contact at the US Forest Service or another stakeholder organization before becoming involved in this project. In many cases, it was the stakeholder contact's personal interest in urban forestry that led their organization to partner with CommuniTree. The level of formality of stakeholder relationships to the CommuniTree Program varied. The stakeholders directly involved in the application for grants or listed as technical assistants had a more formally documented relationship, and many of the interviewees had work orders they submitted to superiors approving the work they dedicated to CommuniTree. Municipalities also had a formally documented relationship because of their approved applications to receive trees to be planted on public property. Stakeholders stated desired outcomes both ecological and social. Non-municipal public stakeholders wished to increase ecosystem services, particularly those that apply to the specific mission of the agency. Municipalities wished to restore losses due to invasive species, improve relations with their community, provide job training opportunities for citizens, and lower future costs that arise due to improper planting practices. The utility company (private entity) also wished to improve community relations and decrease future costs due to conflicts with utilities. The desired outcomes of nonprofit stakeholders were very specific to the mission of their nonprofit, and their representatives prioritized ecological and social outcomes differently based on this mission. The regional and federal partnership groups interviewed were most interested in regional ecological improvements and increasing the urban forestry capacity of local communities. All stakeholders stated a high level of satisfaction with the CommuniTree program, but were interested in planning related to the sustainability of the project, particularly financially, and management of the existing urban forest (e.g., dead tree removal).

### WHAT IS COMMUNITREE?

CommuniTree is a *collaborative, multi-organizational tree planting partnership* based on the Collective Impact model (at right).

- *Instigated by* USFS's Drew Hart *in 2016*
- "Backbone" organization: Student Conservation Association (SCA), which manages a trained crew
- *Nearly 2,000 trees planted to date* by SCA crew, through volunteer tree planting events, or disbursed to municipalities and school or community groups

### Research

#### QUESTIONS

- **1.** Who are the formal stakeholders involved and what *role(s)* do they play?
- **2.** Is stakeholder participation *motivated* by organizational interest in urban and community forestry or the personal interests and connections of the interviewee?
- **3.** What are the *desired* outcomes of stakeholders and how do the desired outcomes of each stakeholders align (or not) with each other?
- **4.** What are stakeholders' visions for the evolution and possible *improvements* of CommuniTree?

#### Methods

#### **Interview Script Development and Stakeholder** Identification

- Initial script designed by DePaul ENV *Mixed Methods*
- Drew Hart provided contact information for the person or CommuniTree activities
- *"Stakeholder"* = group that provides/receives resources to/ from CommuniTree program
- Interviewees were recruited through *email* and provided an information sheet on the research project; we then contacted unresponsive parties by *phone* one week after our initial email

#### **Interviewing Stakeholders**

- 30- to 60-minute interviews conducted at the interviewee's office or a location of their choice
- Interviews with all stakeholders *conducted* during fall 2017; *recorded* + *transcribed* for qualitative analysis

#### **Qualitative Analysis**

- Interview transcripts were uploaded to the *NVivo* software (QSR International, 11.4.3) for qualitative content analysis
- *Emergent coding* on themes of motivations, desired outcomes, and vision for evolution of CommuniTree

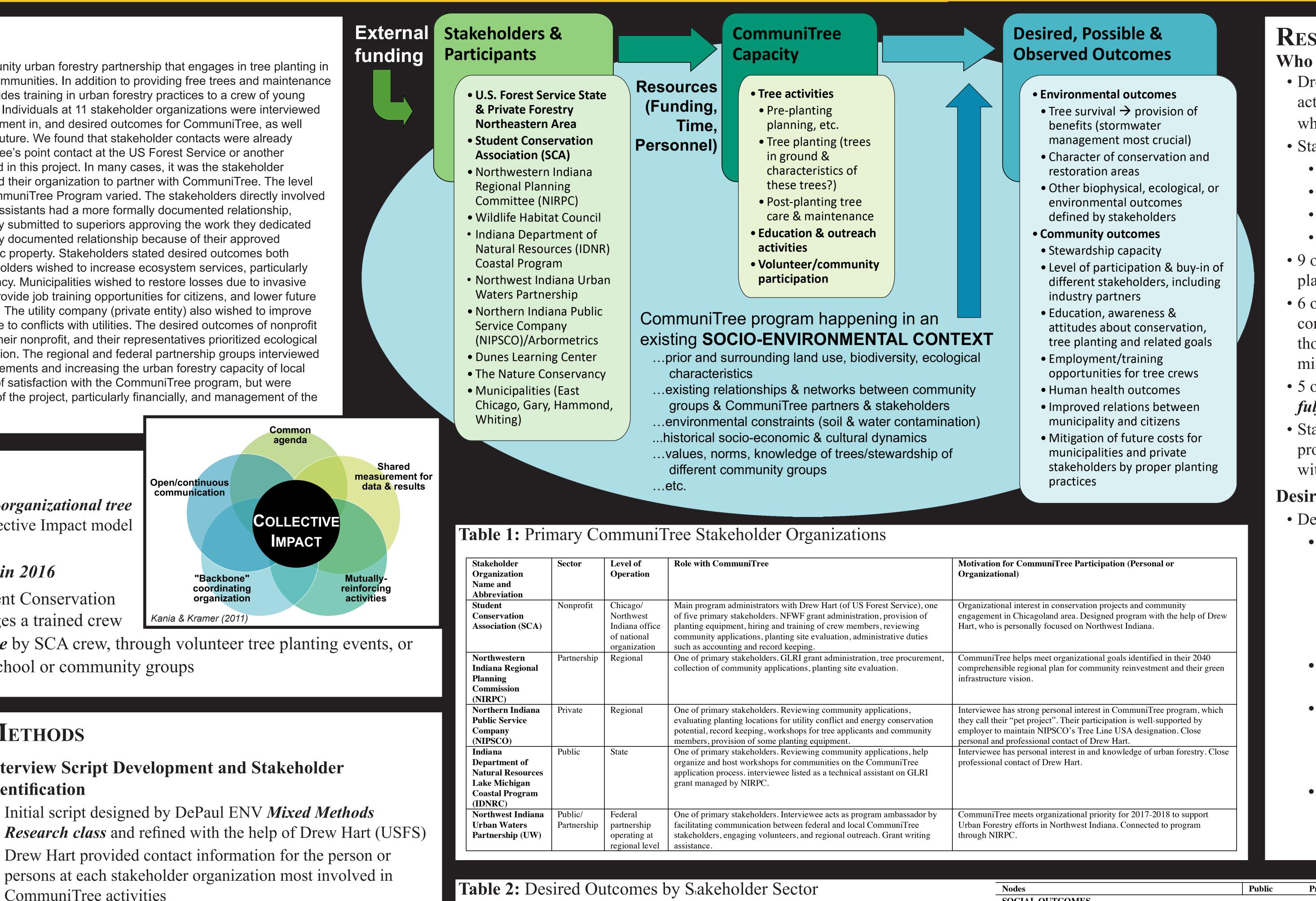


Table 2: Desired Outcomes by Stak	ceholder	Sector			Nodes	Public	Private	Nonprofit	Partnership
					SOCIAL OUTCOMES				
Nodes	Public	Private	Nonprofit	Partnership	Aesthetics/Beautification	EC, GEA, IDNRC, UW		TNC, SCA	UW
ECOLOGICAL/BIOPHYSICAL OUTCOMES					Improve public spaces	EC, GEA,	NIPSCO	TNC	
Urban Forest Structure	EC, GEA	NIPSCO	TNC, SCA	NIRPC		HPR			
Increase canopy	EC		TNC	NIRPC	Model for other forestry efforts	EC, UW	NIPSCO	SCA	NIRPC, UW
Increase habitat and biodiversity			TNC, SCA		Increase municipality prioritization of tree planting	EC		SCA	NIRPC
Tree species composition	EC		TNC, SCA		Increase municipality urban forestry capacity	EC, UW			NIRPC, UW
Tree survival			SCA		Organization image	EC, GEA	NIPSCO	WHC	
Pest or disease recovery (EAB)	EC, GEA	NIPSCO	TNC	NIRPC	Improve stakeholder relationship with community	EC, GEA	NIPSCO		
Water	GEA,		SCA	NIRPC, UW	Organization exposure and marketing			WHC	
	IDNRC, UW				Community engagement	GEA, UW		TNC, SCA	UW
Storm water management	GEA, UW		SCA	NIRPC	Forestry job training	GEA, HPR,		SCA	UW
Water quality	IDNRC, UW			UW		UW			
Watershed management				NIRPC	Stewardship education	GEA		DLC, TNC,	
Waterway restoration	UW			UW				SCA	
Air quality	EC, GEA, HPR		TNC, SCA		Tree planting or maintenance at little to no cost	EC, GEA, HPR		NIRPC	
Soil or brownfield remediation	HPR		DLC		Conservation partnerships	IDNRC		SCA, WHC	
Stated prioritization of ecological/biophysical outcomes					Social justice	EC, GEA		DLC	
Carbon sequestration		•	TNC		Arbor Day Foundation designation	EC	NIPSCO		
Improve overall urban environmental quality			TNC		Improve quality of life	EC		TNC	
Temperature/Urban heat island regulation			TNC		Prevent utility conflict	HPR	NIPSCO		
					Stated prioritization of social outcomes		NIPSCO		
					Community/economic development	IDNRC			
FUNDING & SUPPORT were obtained from the DePaul University College of Science & Health (CSH) Undergraduate Research Assistantship Program (URAP), the Faculty Summer Research Program (URAP), the Department of Environmental Science & Studies, & Irwin W. Steans Center for Community-based Service Learning.					Create community	HPR			
					Energy conservation	NIPSCO			
					Impact on crew/crew's increased environmental consciousness			SCA	
					Shade	EC			
					Connect communities to waterways	UW			UW

# **DEPAUL UNIVERSITY**

## **MARGARET ABOOD**<sup>a\*</sup> DR. JESS VOGT<sup>b</sup>

<sup>a</sup> BA Environmental Studies 2018, <sup>b</sup>Assistant Professor \*Presenting/corresponding author: aboodmargaret@gmail.com



#### RESULTS

#### Who are CommuniTree's Stakeholders?

- Drew Hart (USFS) identified 5 primary stakeholders who are actively involved in the CommuniTree steering committee, which meets quarterly (*Table 1*)
- Stakeholders divided into 4 sectors:
- Public
- Private
- Nonprofit
- Partnership (combo. of above)

• 9 of 11 stakeholders *had previously been involved* in other tree planting projects with Drew Hart

- 6 of 11 stakeholders became involved due to the stakeholder contact's *personal interest* in urban or community forestry, though CommuniTree also aligns with their organization's mission
- 5 of 11 stakeholders became involved because CommuniTree fulfilled their organization's mission or interests
- Stakeholders involved in *grant applications* or listed as providing technical assistance have *more formal relationships* with CommuniTree program than non-grantees.

#### **Desired Outcomes -** *see also Table 2*

#### • Desired outcomes of...

- *Public:* wish to restore trees lost to EAB, engage disenfranchised citizens in improvement and beautification
- of community, increase ecosystem services with different levels of priority depending on mission of agency or municipal department, with common emphasis on storm water management and air quality
- *Private:* wish to improve community relations, avoid future utility conflicts
- Nonprofit: specific to mission of organization prioritize social v. ecological outcomes based on mission; all wish to engage and educate communities in stewardship and conservation activities
- *Partnership:* wish to increase communities' urban forestry capacity, regional ecological improvements such as increased canopy and better water quality.

#### **Vision for CommuniTree Evolution/Possible** Improvements

- Most commonly mentioned potential changes/improvements:
  - Clearer big-picture goals, such as a regional urban forestry plan and an official mission statement
  - Improved data collection
  - Greater long-term financial sustainability
  - Geographic expansion
  - Management of existing urban forest