

Project Title – Development of Educational and Professional Training Modules on Green/Sustainability Design and Rating Systems for Neighborhood Development and Transportation

University – University of Florida

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Funding Source(s) and Amounts Provided (by each agency or organization)

Total Project Cost – \$94,709

Agency ID or Contract Number – 2012-051S

Start and End Dates – 7/1/12 to 2/1/2016

Brief Description of Research Project – This project will develop educational resources providing introductory training on LEED for Neighborhood Development (LEED-ND) methodology and other green design for students and practitioners. Three modules will be developed focusing on: Smart Location and Linkage (SLL), Neighborhood Pattern and Design (NPD), and Green Infrastructure and Buildings (GIB). The modules will discuss prerequisites and credits which reward designs and practices promoting sustainability and livability objectives.

Describe Implementation of Research Outcomes (or why not implemented)

Place Any Photos Here



Figure 1. Guest presentation by Dr. Julie Price, UAB Coordinator of Sustainability to CE 490/590 Class on “Sustainability Design and Rating Systems”

Table 2. Criteria comparison of transportation rating systems [adapted from Brodie *et al.*, 2013a].

Criteria Categories		Transportation						
		Greenroads	GreenLITES	STARS	BE ² ST	Green Pave	I-LAST	INVEST
Environmental Sustainability	Water Conservation							
	Energy Conservation							
	Environmental/Ecosystem Protection							
	Climate Change							
	Waste and Materials Management							
	Noise/Light Pollution							
	Sustainable Land Use							
Economic Sustainability	Innovation/ Design							
	Operations and Maintenance							
	Cost Effectiveness							
	Affordability							
	Economy/Jobs							
Transportation Impact								
Social Sustainability	Access							
	Safety							
	Equity/Inclusion							
	Health/Well-being							
	Culture/Place-making							
	Food Sustainability							
	Indoor Environment							

Table 3. Criteria comparison for neighborhood-level development rating systems [adapted from Brodie *et al.*, 2013a].

Criteria Categories		Neighborhood Development				
		STAR Communities	OnePlanet Communities	Enterprise Green Communities	LEED-ND	Ecodistricts
Environmental Sustainability	Water Conservation					
	Energy Conservation					
	Environmental/Ecosystem Protection					
	Climate Change					
	Waste and Materials Management					
	Noise/Light Pollution					
	Sustainable Land Use					
Economic Sustainability	Innovation/ Design					
	Operations and Maintenance					
	Cost Effectiveness					
	Affordability					
	Economy/Jobs					
Transportation Impact						
Social Sustainability	Access					
	Safety					
	Equity/Inclusion					
	Health/Well-being					
	Culture/Place-making					
	Food Sustainability					
	Indoor Environment					

Table 4. Summary of criteria in sustainability rating systems [adapted from Brodie *et al.*, 2013b].

	Green-LITES	BEZST	I-LAST	Green-roads	Green Pav	STARS	INVEST	EnvISION	LEED-ND	Eco Districts	One Planet Communities	Enterprise Green Communities	STAR Communities	Green Star Communities
Water Conservation														
Energy Conservation														
Environmental/Ecosystem														
Sustainable Land Use														
Waste/Materials Mgmt.														
Noise/Light Pollution														
Climate Change														
Transportation Impact														
Access														
Cost Effectiveness														
Innovation/ Design														
Safety														
Operations/Maintenance														
Economy/ Jobs														
Affordability														
Equity/Inclusion														
Indoor Environment														
Health/Well-being														
Culture/Place-making														
Food Sustainability														

Impact/Benefits of Implementation (actual, not anticipated)

Final Report on STRIDE Website:

http://stride.ce.ufl.edu/uploads/docs/Educational_Modules_on_Green-Sustainability_Design_Rating_Systems_for_Neighborhood_Development_and_Transportation_STRIDE_2012-051S.pdf

Course Website: <http://stride.ce.ufl.edu/educational-modules-on-green-sustainable-design-and-rating-systems-for-neighborhood-development-and-transportation->

Final Report on TRB/TRID: <https://rip.trb.org/view/2012/P/1343146>