

Part I - Program-Wide Performance Indicators

**University Transportation Centers Program Performance Indicators**

UTC Name: Center for Connected and Automated Transportation

University: University of Michigan

Grant # 69A3551747105

Reporting Period: November 30, 2016 through November 30, 2017

Performance Indicators	Consortium	UM	Purdue	UIUC	Akron	CSU	WCC
	Total						
1. Number of transportation-related courses offered during the reporting period that were taught by faculty and/or teaching assistants who are associated with the UTC.							
Undergraduate courses	6	1	0	5	0	0	0
Graduate courses	8	2	0	5	1	0	0
2. Number of students participating in transportation research projects during the reporting period funded by this grant.							
Undergraduate students in research	5	2	0	2	1	0	0
Graduate students in research	18	7	0	9	2	0	0
3. Number of transportation-related advanced degree programs that utilize grant funds during the reporting period to support graduate students.							
Masters level programs	2	1	0	0	1	0	0
Doctoral level programs.	2	1	0	0	1	0	0
4. Number of students supported by this grant during the reporting period							
Undergraduate degrees	3	0	0	2	1	0	0
Masters degrees	4	1	0	2	1	0	0
Doctoral degrees	6	1	0	4	1	0	0
5. Number of students supported by this grant who received degrees during the reporting period							
Undergraduate degrees	0	0	0	0	0	0	0
Masters degrees	1	0	0	0	1	0	0
Doctoral degrees	1	0	0	1	0	0	0
6. Number and total dollar value of research projects selected for funding during the reporting period using UTC grant funds (Federal and/or Recipient Share) that you consider to be applied research and advanced research							
Number of applied research projects	13	4	8	1	0	0	0
Dollar value of applied research projects	\$ 2,284,161	\$ 775,178	\$ 1,276,923	\$ 232,060	\$ -	\$ -	\$ -
Number of advanced research projects	8	6	0	1	1	0	0
Dollar value of advanced research projects	\$ 1,166,960	\$ 859,900	\$ -	\$ 232,060	\$ 75,000	\$ -	\$ -

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<b>Performance Indicators:</b>	<b>Consortium</b>						
<b>Research</b>	<b>Total</b>	<b>UM</b>	<b>Purdue</b>	<b>UIUC</b>	<b>Akron</b>	<b>CSU</b>	<b>WCC</b>
1.A Research articles published							
Conferenced	9	6	0	2	1	0	0
Peer-reviewed journals	1	1	0	0	0	0	0
1.B Research projects funded by sources other than UTC and matching fund sources							
Number of projects	5	5	0	0	0	0	0
Dollar amount of projects	\$ 771,871	\$ 771,871	\$ -	\$ -	\$ -	\$ -	\$ -
1.C Number of new technologies, procedures/policies, and standards/design practices influenced by research and applied by organizations <sup>1</sup>							
Masters level programs	1	0	0	0	1	0	0
Doctoral level programs.	1	0	0	0	1	0	0
<b>Performance Indicators:</b>	<b>Consortium</b>						
<b>Leadership Development</b>	<b>Total</b>	<b>UM</b>	<b>Purdue</b>	<b>UIUC</b>	<b>Akron</b>	<b>CSU</b>	<b>WCC</b>
2.A Keynote speeches or invited speaker presentations							
Number of media engagements	30	23	0	2	0	0	5
Number of academic engagements	38	26	0	2	1	0	9
Number of industry engagements	76	25	0	2	0	0	49
2.B Leadership positions held							
Regional organizations	10	1	0	0	1	0	8
National organizations	4	1	0	0	0	0	3
International organizations	4	1	0	2	0	0	1
2.C CCAT affiliated students holding leadership positions							
Number of students	19	10	0	1	0	0	8
<b>Performance Indicators:</b>	<b>Consortium</b>						
<b>Education and Workforce Development</b>	<b>Total</b>	<b>UM</b>	<b>Purdue</b>	<b>UIUC</b>	<b>Akron</b>	<b>CSU</b>	<b>WCC</b>
3.A Number of Workforce Online learning modules created and developed toward the certification of completion training for the emerging CAT field technician							
Number of learning modules	6	0	0	0	0	0	6
Dollar value of learning modules	\$ 52,373	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 52,373
3.B Development of Articulation agreements for C++ software programs and Applied Data Science program with partner institutions							
Number of Articulation/Transfer Programs	5	0	0	0	0	0	5
Dollar Value of Articulation/Transfer Programs	n/a	0	0	0	0	0	n/a
3.C Development of an active WCC Pre-Engineering Program in STEM disciplines leading to an AAS degree							
% Complete Offering- Pre-Engineering IT Program	0	0	0	0	0	0	0
Dollar Value of Offering- Pre-Eng'g IT Program	0	0	0	0	0	0	0
3.D Number of curriculum development and professional development activities for instructors in related CAT technologies							
Number of Professional Dev. Activities in IT [CAT]	11	2	0	0	1	0	8
Dollar value of Professional Dev. Activities in IT [CAT]	\$ 130,500	\$ 120,000	\$ -	\$ -	\$ -	\$ -	\$ 10,500
3.E Number of K-12 Career pathways activities related to CAT career fields.							
Number of K-12 Activities in CAT Career Areas	8	2	0	0	0	0	6
Number of participants	513	56	0	0	0	0	457
Dollar Value of K-12 Activities in CAT Career Areas	\$ 42,075	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ 37,075

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<b>Technology Transfer</b>	Total						
4.A Number of new technologies, procedures/policies, and standards/design practices influenced by research and applied by organizations							
Masters level programs	1	0	0	0	1	0	0
Doctoral level programs.	2	1	0	0	1	0	0
4.B Media stories referencing CCAT, CCAT research or other activities							
Number of media stories	23	19	0	1	0	0	3
4.C Newsletters, press releases, and website							
Number of newsletters	5	4	0	1	0	0	0
Number of press releases	5	5	0	0	0	0	0
Number of website hits	1514	1514	0	0	0	0	0
Performance Indicators:	Consortium	UM	Purdue	UIUC	Akron	CSU	WCC
<b>Collaboration</b>	Total						
5. A Collaboration with other agencies							
Number of agencies providing matching funds	1	0	0	0	1	0	0
Number of agencies participating in CCAT events	24	22	0	0	2	0	0
Number of individuals from external agencies attending CCAT events	101	76	0	0	0	0	25

<sup>1</sup>Also considered technology transfer