Tax Technologies

Part of Europe 1

Q1 North Carolina State University INFORMED CONSENT FORM for RESEARCH Title of Study: Technology Diffusion in Tax: An Examination of Three Assimilation Models Principal Investigators: Robin Pennington, Al Chen, Jennifer Dirienzo, Kathy Krawczyk

You are being asked to take part in a research study. Your participation in this study is voluntary. You have the right to be a part of this study, to choose not to participate or to stop participating at any time without penalty. The purpose of this research study is to gain a better understanding of technology use in corporate tax departments. We are also interested in learning about how certain factors influence the use of technology in corporate tax departments. To be a participant in this study, you must be knowledgeable about how your organization uses technology in the tax department. In this consent form you will find specific details about the research in which you are being asked to participate. If you do not understand something in this form, it is your right to ask the researcher for clarification or more information. If at any time you have questions about your participation, do not hesitate to contact the researcher(s) named above or the NC State IRB office as noted below. There is no compensation for participation in this research.

There are minimal risks associated with participation in this research. There are no direct benefits; the indirect benefits are to further the body of knowledge regarding research into tax technologies in corporate tax departments. Your participation in this study could have implications for businesses planning to adopt technology in their corporate tax departments. If you agree to participate in this study, you will be asked to participate in an online survey. The survey will include questions about your organization, your use of technology to complete tax processes, and your expectations about the challenges of implementing technology for tax processes. The survey will take about 15 minutes to complete.

The information in the study records will be kept confidential to the full extent allowed by law. Data will be stored securely on an NC State managed computer. No reference will be made in oral or written reports that could link you or your organization to the study. To help maximize the benefits of your participation in this project, by further contributing to science and our community, your de-identified data will be stored for future research and may be shared with other people.

If you have questions at any time about the study itself or the procedures implemented in this study, you may contact the researcher, Robin Pennington, robin_pennington@ncsu.edu, 919-515-4509. If you feel you have not been treated according to the descriptions in this form, or your rights as a participant in research have been violated during the course of this project, you may contact the NC State IRB Office via email at irb-director@ncsu.edu or via

phone at 1.919.515.4514. You can also find out more information about research, why you would or would not want to be in research, questions to ask as a research participant, and more information about your rights by going to this website: http://go.ncsu.edu/research-participant Consent To Participate "I have read and understood the above information. I agree to participate in this study with the understanding that I may choose not to participate or to stop participating at any time without penalty or loss of benefits to which I am otherwise entitled." Click "yes" to consent.

- Yes, I do consent. (1)
- No, I do not consent. (2)

Q3 For the purposes of this survey, tax analytics and automation refers to **any technologies** that your tax department is currently using or is intending to use in the future. Examples include but are not limited to: Spreadsheets, Business Intelligence software, Dashboards, Scorecards, Visualization software, Statistical Analysis software, Robotic Process Automation software, Artificial Intelligence software, Programming languages (Python, R, etc.)

Initiation

Q5

Please indicate how significant each of the following potential benefits of tax analytics and automation technologies was rated when your organization was *considering whether* to use tax analytics and automation technologies in your corporate tax department.

	Not Significant (1)	(2)	Somewhat Significant (3)	(4)	Very Significant (5)	Don't Know (6)
To reduce cost in the tax department				,		
To expand tax services in house (2)						
To improve coordination of the tax department with other departments (4)			O			
To enhance tax reporting (5)						
To analyze large tax data sets (6)				Ç		
To increase tax department productivity (7)						

	check the box describing applications of tax analytics and automation technologies in your proporate tax department processes (check as many as apply):
1	Automation of repetitive or rules based tasks currently performed by tax professionals (examples: state apportionment, tax treatment of travel expenses, like-kind exchange matching, tax depreciation classifications, etc. (1)
2	Data mining and the process of finding previously unknown relationships and patterns (examples: tax data exploration, fraud detection, etc.) (2)
3	Leveraging advanced statistical or computer science tools to mimic human decision making in tax (examples: artificial intelligence) (3)
4	Other (Please describe) (4)
G	Inalitative Score? at egorical 1 2 3 at egorical 1 advanced
	eary
(1	pased PWC paper)

Routineutism

If your organization has used tax analytics and automation in your corporate tax department, please estimate how integrated the technology is in the following processes:

	Not at all integrated (1)	(2)	Somewhat integrated (3)	(4)	Fully integrated (5)	Don't know (6)
Tax compliance (1)						
Tax provision (2)						
Tax planning (3)	0	O				O
Tax strategy (4)				.		

7	Teur	VJ/0000 8	Riod	
1 What type o	of enterprise databas	se system does y	our company i	ıse?
-				
Do you have	e a management lev	el tax professiona	al for analytics	and/or auton
o, what is the title of th	e position?			
1				

					
-					
Q37 4. Ap	proximately how	many IT profes	ssionals are av	ailable to assis	st your tax de
Q37 4. Ap in-the adoption	proximately how n and/or use of ta	many IT profes ax analytics and	ssionals are av	ailable to assis	st your tax de

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Park Market Mark	\						
Q39 6.	How many	/ tax profess	ionals have e	xpertise in	tax analyti	cs and aut	tomati
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	How many gies?	y tax profess	ionals have e	expertise in	tax analyti	cs and aut	tomati
	How many gies?	y tax profess	ionals have e	expertise in	tax analyti	cs and aut	tomati
	How many gies?	y tax profess	ionals have e	expertise in	tax analyti	cs and aut	tomati

1	k as many as apply):
	Spreadsheets (1)
	Business intelligence software (2)
	Dashboards (3)
	Scorecards (4)
	Visualization software (5)
	Statistical Analysis software (6)
	Robotic process automation software (7)
	Artificial intelligence software (8)
	Programming languages (Python, R, etc) (10)
	others (11)

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Q23

Technology Integration

Please rate the extent to which...

	Not at all integrated (1)	(2)	Somewhat integrated (3)	(4)	Fully integrated (5)	Don't know (6)
Your tax systems are electronically integrated with your company's databases and information systems (1)			4			
Your company's databases and information systems are electronically integrated with those of your company's business partners (2)						

Q26

Firm Size

Approximately how many employees does your organization have in total, including all branches, divisions, and subsidiaries?

Geographic Scope dictomens Please check the box that describes the geographic extent of your company's operations domestic (check as many as apply): Your organization has one establishment. (1) Your organization has more than one establishment. (2) Your organization has establishments outside of your state (3) Your organization has establishments outside your country. (4) Q27 How many foreign subsidiaries to does your company have? dictomons 20 or 20 0 (1) 1-20 (2) Over 20 (3)

Approximate the contract of th				's total sales are from outside your count
	set	wp	%	categories (3-5
)				
oximately try?	y what percent	of your co	ompany's to	otal procurement spending is from outside
	Set	up	°Z,	Categories (3-

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Q30 Please rate how significant the following **obstacles** are to your corporate tax department's ability to conduct tax analytics and automation.

Not Significant (1)	(2)	Somewhat Significant (3)	(4)	Very Significant (5)	Don't know (6)

Making
needed
organizational
changes for
Tax Analytics
and
Automation
implementation
(1)

Integrating Tax
Analytics and
Automation
into your
overall tax
strategy and
business
process (2)

Lacking staff with Tax Analytics and Automation expertise (3)

Other Obstacles (4)

I when we transform the other obstacles (4)

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Compet the The state of

Please rate the degree to which your company's business activities are affected by

	Not at all Affected (1)	(2)	Somewhat Affected (3)	(4)	Significantly Affected (5)	Don't know (6)
Competitors in your local area (1)					C)	
Competitors inside your country (2)						
Competitors from outside your country (3)						

Q32

analytics and automation information (4) Regulatory Environment

Please rate the degree to which you agree with the following statements.

	Don't Agree (1)	(2)	Agree Somewhat (3)	(4)	Agree Completely (5)	Don't Know (6)
Government(s) are utilizing tax analytics and automation (1)						
Government(s) require the use of tax analytics and automation for tax compliance (2)		Ю				
Tax laws support the use of tax analytics and automation (3)						
There is adequate legal protection for the use of tax						

What is your job title?
. How long have you been in your current position?
2

Q43 3. CEO, CF	Who does the head of the tax department report to in your organization (example: O, Treasury, etc.)
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-	
Q44 4. organizat	y the production and the time to the tax department in you
-	
-	

Q46 5.	What industry does your company belong to?
7	
,	
Q47 6.	In what year was your company founded?
_	
-	

Q48 7.	In what state or U.S. Territory is your company currently headquartered?
-	
Q49 8.	In what city is your company currently headquartered?
,	

Q51 To receive a summary of the results, please enter your email below.