OeDBTR: Pre-payment procurement process Scenario: The wholesale purchases of green and red bicycles

C=completed	reusable=®
Instance I	dentifier
State Machin	ne Identifier
visited state vis	
☑ new current st	ate
☐ unvisited state	
old property=old	
new property~new	value

D : D D : I	D : D .	F		F . F .
Business Process Detail	Business Process Overview	Economic Commitment	Economic Contract	Economic Event
□ catalogue-requested +catalogue=catalogue-received +abandon=abandoned	☐ planning +request-quotation=identification +abandon=post-actualization	☐ proposed +accept-commitment=specified +modify-commitment=proposed	☐ offered +accept-contract=accepted ☐ accepted	underway +modify-event=underway +complete-event=event-complete
□ catalogue-received +request-quotation=quotation-requested +abandon=abandoned	☐ identification +quotation=negotiation +abandon=post-actualization	☐ specified +modify-commitment=specified +complete-commitment=commitment-complete	+modify-contract=accepted +complete-contract=contract-complete	□ event-complete
☐ quotation-requested +quotation=quotation-received +abandon=abandoned ☐ quotation-received +order=order-received	☐ negotiation +response-simple-accept=actualization +response-simple-reject=post-actualization +abandon=post-actualization ☐ actualization	□ commitment-complete	<u> </u>	ı
+abandon=abandoned order-received response-simple-accept=order-accepted response-counter=counter-order-received +response-simple-reject=abandoned +abandon=abandoned	+invoice=post-actualization +abandon=post-actualization post-actualization			
□ counter-order-received +order=order-received +abandon=abandoned				
□ order-accepted +remittance-advice=paid +abandon=abandoned				
☐ paid +despatch-advice=despatched +abandon=abandoned				
☐ despatched +receipt-advice=goods-received +abandon=abandoned				
☐ goods-received +invoice=completed +abandon=abandoned				
□ abandoned				
\Box completed				
(0)	0	(0)	(a)	Ā
Economic Agent E	Economic Agent Type Eco	onomic Event Type Ecor	nomic Resource E	conomic Resource Type

□ event-type-identified

+modify-event-type=event-type-identified

□ participating +modify-agent=participating

□ agent-type-identified

+modify-agent-type-agent-type-identified

□ available

□ reserved

+reserve=reserved

+deliver=exchanged +exchange=exchanged

+modify-available-resource=available

+modify-available-resource=reserved

□ resource-type-identified
+modify-resource-type=resource-type-identified

Business Event #1: Establish the use of Dai as a resource type

Stimulus: Define Dai currency (identify-resource-type)

Business Process Detail catalogue-requested	Business Process Overview planning	Dai ® Economic Resource Type ☑ resource-type-identified exchange USD~1.0	Economic Commitment proposed	Economic Contract offered	Economic Event underway	Economic Agent participating	Economic Agent Type agent-type-identified	Economic Event Type event-type-identified
□ catalogue-received □ quotation-requested □ quotation-received □ order-received	☐ identification ☐ negotiation ☐ actualization ☐ post-actualization	exchange Usb=1.0 proper name~Dai resource type~cryptocurrency	☐ specified ☐ commitment-complete	□ accepted □ contract-complete	□ event-complete			
□ counter-order-received □ order-accepted □ paid □ despatched □ goods-received □ abandoned □ completed								
Economic Resource available reserved exchanged								

OeDBTR: Pre-payment procurement process Business Event #2: Establish all the economic agent types

Stimulus: Define agent types (identify-agent-type)

		<u>Buyer</u> ®	<u>Dai</u> ®	<u>Seller</u> ®	<u>TaxAuthority</u> ®		
Business Process Detail	Business Process Overview	Economic Agent Type	Economic Resource Type	Economic Agent Type	Economic Agent Type	Economic Commitment	Economic Contract
□ catalogue-requested	□ planning	☑ agent-type-identified	▼ resource-type-identified	✓ agent-type-identified	✓ agent-type-identified	□ proposed	□ offered
□ catalogue-received	□ identification	role~buyer	exchange USD=1.0	role~seller	role~Tax Authority	□ specified	□ accepted
☐ quotation-requested	□ negotiation		proper name=Dai resource type=cryptocurrency			☐ commitment-complete	☐ contract-complete
☐ quotation-received	□ actualization		resource type trypescurrency				
□ order-received	☐ post-actualization						
□ counter-order-received		ı					
□ order-accepted							
□ paid							
□ despatched							
□ goods-received							
□ abandoned							
□ completed							
	-						
	®	®	(8)				
Economic Event Econo	omic Agent Economic Even	nt Type Economic Resou	irce				
□ underway □ pa	rticipating uevent-type-ide	entified available					
□ event-complete		□ reserved					
		□ exchanged					

OeDBTR: Pre-payment procurement process Business Event #3: Establish all economic agents Stimulus: Establish all of the agents (identify-agent)

			<u>Buyer</u>	®	<u>Dai</u> ®	i	Party100 ®	Party200 ®	<u>Party300</u> ®	<u>Seller</u> ®
	Business Process Detail	Business Process Overview	Economic Agent 7	Type Econom	ic Resource Type	Е	conomic Agent	Economic Agent	Economic Agent	Economic Agent Type
	□ catalogue-requested	□ planning	agent-type-ident agent-type-ident	ified 🗷 resource	e-type-identified	partici	pating	participating	participating	■ agent-type-identified
	□ catalogue-received	□ identification	role=buyer	exchange (ISD=1.0	balance~0		balance~100000	balance~0	role=seller
	□ quotation-requested	□ negotiation		proper nam	e=Dai .ype=cryptocurrency	currency~		currency~Dai name~Jonas's Bike Shop	currency~Dai	
	□ quotation-received	□ actualization		lesouice (.ype=cryptocurrency	type~Sell	er	■ type~Buyer	■ type~TaxAuthority	
	□ order-received	□ post-actualization				wallet~0x	4cFa2eDE	wallet~0xdF86f112	wallet=~0xdA9f23F4	
	□ counter-order-received		_							
	□ order-accepted									
	□ paid									
	□ despatched									
	□ goods-received									
	□ abandoned									
	□ completed									
		1								
1	<u>TaxAuthority</u> ®					®	®			
1	Economic Agent Type	Economic Commitment	Economic Contract	Economic Eve	nt Economic Ev	ent Type	Economic Resource			
1	☑ agent-type-identified	□ proposed	□ offered	□ underway	□ event-type-	identified	□ available			
			□ accepted	□ event-comple	ete 31		□ reserved			
٠		□ commitment-complete	□ contract-complete	1			□ exchanged			
	L		1	1						

OeDBTR: Pre-payment procurement process Business Event #4: Establish the sport bikes as resource types Stimulus: Define green and red sport bike types (identify-resource-type)

		<u>Buyer</u> ®	<u>Dai</u>	® GreenSport	:Bike ®	Party100 ®	<u>Party200</u> ®	<u>Party300</u>
Business Process Detail	Business Process Overview	Economic Agent Type	Economic Resource Typ	e Economic Resou	ігсе Туре	Economic Agent	Economic Agent	Economic Agent
□ catalogue-requested	□ planning	■ agent-type-identified	resource-type-identified	d	identified 🗵 parti	cipating	□ participating	□ participating
□ catalogue-received	□ identification	role=buyer	exchange USD=1.0	price currency~Da			balance=100000	balance=0
☐ quotation-requested	□ negotiation		proper name=Dai resource type=cryptocurre	suggested price~1 ncy suggested VAT/MOM		y=Dai ll's Bikes Manufacturing	currency=Dai name=Jonas's Bike Shop	currency=Dai
□ quotation-received	□ actualization		resource type-eryptocurre	ney suggested varyhor	type=Se:	ller	type=Buyer	type=TaxAuthority
□ order-received	□ post-actualization				wallet=	Dx4cFa2eDE	wallet=0xdF86f112	wallet==0xdA9f23F4
□ counter-order-received		4						
□ order-accepted								
□ paid								
□ despatched								
□ goods-received								
□ abandoned								
□ completed								
RedSportBike ®	<u>Seller</u> ®	<u>TaxAuthority</u> ®					®	
Economic Resource Type	Economic Agent Type	Economic Agent Type	Economic Commitment	Economic Contract	Economic Event	Economic Event Type	Economic Resource	
	■ agent-type-identified	■ agent-type-identified	□ proposed	□ offered	□ underway	□ event-type-identifie	d □ available	
price currency~Dai			□ specified	□ accepted	☐ event-complete		□ reserved	
suggested price~800 suggested VAT/MOMS~200			□ commitment-complete	□ contract-complete		_	□ exchanged	
Lagger and the same and the sam	.4	ı	-					

Business Event #5: Establish inventory of all instances of green bikes Stimulus: Establish the inventory of green sport bikes (identify-available-resource)

Business Process Det catalogue-requested quotation-requested quotation-received counter-order-received counter-order-received paid despatched goods-received abandoned completed	□ planning □ identification □ negotiation □ actualization □ post-actualiza	X ro.	Buyer ® Conomic Agent Type agent-type-identified le=buyer	Economic Resource resource-type-ident exchange USD=1.0 proper name=Dai resource type=cryptocu	ified resource-typ price currency= suggested price	source Type pe-identified Dai p=1200 pe-identified balance= currency name=Bil type=Sel	0 =Dai 1's Bikes Manufacturing	Economic Agent Darticipating	<pre></pre>
✓ available □ reserved □ exchanged owner~Party100 serial number~PC001	✓ available ☐ reserved ☐ exchanged ☐ wwner~Party100 Serial number~PC002	PC003 Economic Resor available reserved exchanged exchanged serial number-PC	✓ available □ reserved □ exchanged owner~Party100 serial number~PC	rce Economic Resourc available reserved exchanged owner-Party100 serial number-PC00	□ exchanged owner~Party100		✓ available □ reserved □ exchanged □ wner-Party100 serial number-PC008	available	wner~Party100 erial number~PC010
✓ available □ reserved	RedSportBike Economic Resource T resource-type-identification of the suggested price=800 suggested VAT/MOMS=200	Economic ified Economic agent-	nic Agent Type -type-identified Eco	gent-type-identified Tax Authority	Economic Commitment proposed specified commitment-complete	Economic Contract offered accepted contract-complete	Economic Event underway event-complete	Economic Event Typ ☐ event-type-identifie	

OeDBTR: Pre-payment procurement process Business Event #6: Establish inventory of all instances of red bikes Stimulus: Establish the inventory of red sport bikes (identify-available-resource)

			<u>Buyer</u> ®	<u>Dai</u>	® <u>GreenSpo</u>	<u>rtBike</u> ®	Party100	<pre>® Party200 ®</pre>	Party300 ®
Business Process Detail	Business Proces	ss Overview E	conomic Agent Type	Economic Resource Ty	pe Economic Res	source Type	Economic Agent	Economic Agent	Economic Agent
□ catalogue-requested	□ planning	X	agent-type-identified	resource-type-identifie	ed 🗷 resource-typ	e-identified D	participating	□ participating	□ participating
□ catalogue-received	□ identification	n ro	le=buyer	exchange USD=1.0	price currency=	-Dai b	palance=0	balance=100000	balance=0
☐ quotation-requested	□ negotiation			proper name=Dai resource type=cryptocurr	suggested price ency suggested VAT/M		urrency=Dai ame=Bill's Bikes Manufacturin	currency=Dai ng name=Jonas's Bike Shop	currency=Dai name=Danish Tax Agency
☐ quotation-received	□ actualization			resource type cryptocurr	cher baggebeed viii/i	t	ype=Seller	type=Buyer	type=TaxAuthority
□ order-received	□ post-actualiz	ation				w	vallet=0x4cFa2eDE	wallet=0xdF86f112	wallet==0xdA9f23F4
☐ counter-order-received	d								
□ order-accepted									
□ paid									
□ despatched									
□ goods-received									
□ abandoned									
□ completed									
	_								
PC001 ®	PC002 ®	PC003	® <u>PC004</u>	® <u>PC005</u> ®	PC006 ®	PC007	® <u>PC008</u> ®	PC009 ®	PC010 ®
Economic Resource Eco	onomic Resource	Economic Resou	irce Economic Resour	ce Economic Resource	Economic Resource	Economic Res	source Economic Resource	Economic Resource Econ	nomic Resource
🗷 available 🗵	available	available	available	available available available		available	■ available	🗷 available 🗵 a	vailable
□ reserved □	reserved	□ reserved	□ reserved	□ reserved	□ reserved	□ reserved		□ reserved □ re	eserved
		□ exchanged	□ exchanged	□ exchanged	□ exchanged	□ exchanged	□ exchanged		xchanged
		owner=Party100	owner=Party100	owner=Party100	owner=Party100	owner=Party100			r=Party100
		serial number=PC			serial number=PC006	serial number=			al number=PC010
type=GreenSportBike typ	e=GreenSportBike	type=GreenSportE	ike type=GreenSportBi	ke type=GreenSportBike	type=GreenSportBike	type=GreenSpor	rtBike type=GreenSportBike	type=GreenSportBike type	=GreenSportBike
PC011 ®	PC100 ®	PC101	® PC102	® PC103 ®	PC104 ®	RedSpo	rtBike ® Selle	er ® TaxAutho	®
			irce Economic Resour		Economic Resource	Economic Re			
I ————— I —				_ ' '					<u> </u>
		☑ available	available available available		☑ available	resource-ty		identified agent-type-	
	_	□ reserved	□ reserved		□ reserved	price currency suggested price		role=Tax Autho	rity
	 ,	□ exchanged	□ exchanged	□ exchanged	□ exchanged	suggested VAT/			
		owner~Party100 serial number~PC	owner~Party100 101 serial number~PC1	■ owner~Party100 .02 ■ serial number~PC103	owner~Party100 serial number~PC104				
		type~RedSportBik			type~RedSportBike				
						•			
				®					
Economic Commitment	Economic Con	tract Econor	nic Event Economi	c Event Type					
□ proposed	□ offered	□ under	way	ype-identified					
□ specified	□ accepted	□ event	-complete						
□ commitment-complete	e 🛮 🗆 contract-com	plete							

Business Event #7: Establish the delivery and payment types of event Stimulus: Define delivery and payment event types (identify-event-type)

Business Process Detail catalogue-requested catalogue-received quotation-requested quotation-received counter-received counter-order-received paid despatched goods-received abandoned completed	Business Process Overview planning didentification actualization post-actualization	role=buyer	Dai ® Economic Resource Type I resource-type-identified exchange USD=1.0 proper name=Dai resource type=cryptocurrency	Economic Event Type vevent-type-identified delivery-type-wholesale	GreenSportBike Economic Resource Ty Tresource-type-identiff price currency=Dai suggested price=1200 suggested VAT/MOMS=300	ed Econom Econom participating balance=0 currency=Dai	kes Manufacturing	Party200 @ Economic Agent participating
□ participating	event-type-identified	PC001 ® PC0 nomic Resource vailable	Resource Economic Resource			vailable	available reserved exchanged her=Party100 rial number=PC007	PC008 ® Economic Resource ■ available □ reserved □ exchanged owner=Party100 serial number=PC008 type=GreenSportBike
	pc010	esource Economic Resource		onomic Resource available reserved cexchanged cer=Party100 ial number=PC102 Economic Resource control available control	rved reserved	esource d 00 r=PC104 Economic resource price curre suggested to suggested to	ency=Dai	Seller ® Economic Agent Type B agent-type-identified role=seller
role=Tax Authority	□ proposed □ specified □	offered un	nomic Event derway ent-complete					

Business Event #8: Buyer: What inventory do you have?

Stimulus: Request a catalogue (request-catalogue)
From: buyer; To: seller; Document: Request For Catalogue;

Process1 Business Process Detail	Process1 Business Process Overview planning clip identification clip negotiation clip actualization clip post-actualization	role=buyer e	<u>Dai</u> Economic Resource Type I resource-type-identified exchange USD=1.0 proper name=Dai resource type=cryptocurrer	d event-type-identification delivery-type=wholesa	Economic Resource-type-i	rce Type dentified balance=0 currency=De	ai s Bikes Manufacturing r	Party200 ® Economic Agent participating balance=100000 currency=Dai name=Jonas's Bike Shop type=Buyer wallet=0xdF86f112
☑ participating ☑	esource type=dai	PC001	Resource Economic Reso available reserved exchanged owner=Party100 er=PC002 serial number=F			PC006	PC007 ® Economic Resource ☑ available ☐ reserved ☐ exchanged owner=Party100 serial number=PC007 type=GreenSportBike	Economic Resource available reserved exchanged owner=Party100 serial number=PC008 type=GreenSportBike
	PC010	Economic Resource Conomic Resource			nomic Resource Econo vailable	mic Resource ilable erved blanged Economic Resource price sugges	edSportBike ® omic Resource Type ource-type-identified currency=Dai ted price=800 ted VAT/MOMS=200	Seller Economic Agent Type agent-type-identified role=seller
Economic Agent Type agent-type-identified role=Tax Authority	□ proposed □ specified □	offered und	omic Event lerway nt-complete					

OeDBTR: Pre-payment procurement process Business Event #9: Seller: I have red and green bikes

Stimulus: Return a catalogue (catalogue)
From: seller; To: buyer; Document: Catalogue;

Process1 Business Process Detail	Process1 Business Process Overview planning identification negotiation actualization post-actualization	☑ agent-type-identified expression in the problem is a second of the probl	Dai Economic Resource Type resource-type-identified change USD=1.0 roper name=Dai source type=cryptocurrence	☑ event-type-identifiedelivery-type=wholesal	dd resource-type-identified price currency=Dai suggested price=1200 suggested VAT/MOMS=300	Party100 Economic Agent participating balance=0 currency=Dai name=Bill's Bikes Manufacturing type=Seller wallet=0x4cFa2eDE	Party200 Economic Agent participating balance=100000 currency=Dai name=Jonas's Bike Shop type=Buyer wallet=0xdF86f112
☑ participating ☑	event-type-identified	PC001 © Economic Resource Economic Reserved Image: Reserved	Economic Resort available reserved exchanged owner=Party100 serial number=PC	■ available □ reserved □ exchanged owner=Party100 serial number=PC004	Economic Resource available avail reserved reserved exchanged owner=Party100 serial number=PC005 serial	ved □ reserved anged □ exchanged	Economic Resource ☐ available ☐ reserved ☐ exchanged owner=Party100 serial number=PC008 type=GreenSportBike
	momic Resource vailable served cchanged t=Party100 al number=PC010 sercenSportBike pc01	Economic Resource available reserved exchanged	□ available □ reserved □ exchanged □ owner=Party100 serial number=PC101	conomic Resource available		resource-type-identified price currency=Dai suggested price=800 suggested VAT/MOMS=200	Seller ® Economic Agent Type agent-type-identified role=seller
role=Tax Authority	□ proposed □ specified □	offered unde	mic Event prway t-complete				

Business Event #10: Buyer: Do you have the green bikes that I want?

Stimuli: Establish business process descriptions (request-quotation); Initiate a contract (offer-contract); Commitments to contracts and deliveries (propose-commitment)

From: buyer; To: seller; Document: Request For Quotation;

			From: buyer, 10. ser	ier, Document. Request r	or Quotation,			
Process1	Process1	Contract1	<u>PlanDel1</u>	Buyer	®	Dai ®	DeliveryType ®	<u> GreenSportBike</u> ®
Business Process Detail	Business Process Overview	Economic Contract	Economic Commitment	Economic Agen		Resource Type	Economic Event Type	Economic Resource Type
	🗷 planning	✓ offered	proposed proposed	agent-type-ide	ntified 🗷 resource-	type-identified	vent-type-identified	resource-type-identified
	identification	□ accepted	□ specified	role=buyer	exchange USD		delivery-type=wholesale	price currency=Dai
quotation-requested	□ negotiation	☐ contract-complete	☐ commitment-complete	<u>.</u>	proper name= resource typ	e=cryptocurrency		suggested price=1200 suggested VAT/MOMS=300
1	☐ actualization	buyer party~Party200 contract date~2020-06-01	item~GreenSportBike planned date~2020-06-15	1				
□ order-received	☐ post-actualization		planned date~2020-06-15 planned quantity~10	i i				
☐ counter-order-received		sale type~wholesale	receiver party~Party200	1				
☐ order-accepted		seller party~Party100	sender party~Party100	. i				
□ paid								
☐ despatched	1							
□ goods-received								
☐ abandoned								
□ completed								
		т	. 1					
Party100	® Party200	Party300 ®	PaymentType ®	PC001 ®	PC002 ®	PC003	® <u>PC004</u> ®	PC005 ®
Economic Agent	Economic Agent	Economic Agent	- 71	Economic Resource	Economic Resource	Economic Resou		Economic Resource
participating	participating	participating		▼ available	available	available	available	available
balance=0 currency=Dai	balance=100000 currency=Dai	balance=0 currency=Dai	resource type=dai	reserved	□ reserved	□ reserved	□ reserved	reserved
name=Bill's Bikes Manufact				□ exchanged	□ exchanged	□ exchanged	□ exchanged	□ exchanged
type=Seller	type=Buyer	type=TaxAuthority		owner=Party100 serial number=PC001	owner=Party100 serial number=PC002	owner=Party100 serial number=PC0	owner=Party100 003 serial number=PC004	owner=Party100 serial number=PC005
wallet=0x4cFa2eDE	wallet=0xdF86f112	wallet==0xdA9f23F4		type=GreenSportBike	type=GreenSportBike	type=GreenSportB:		type=GreenSportBike
<u>PC006</u> ®	PC007 ® PC008		® <u>PC010</u> ®	PC011 ®	<u>PC100</u> ®	PC101	® <u>PC102</u> ®	<u>PC103</u> ®
	omic Resource Economic Re			Economic Resource	Economic Resource	Economic Resour	Economic Resource	Economic Resource
🗷 available 🗵 av	vailable 🗵 available	available	available available available	available	available	available	available	available
□ reserved □ re	served reserved	□ reserved	□ reserved □	reserved	□ reserved	reserved	□ reserved	□ reserved
	changed			exchanged	□ exchanged	□ exchanged	□ exchanged	□ exchanged
	=Party100 owner=Party1 11 number=PC007 serial numbe			wner=Party100 erial number=PC011	owner=Party100 serial number=PC100	owner=Party100 serial number=PC1	owner=Party100 01 serial number=PC102	owner=Party100 serial number=PC103
	GreenSportBike type=GreenSp			ype=GreenSportBike	type=RedSportBike	type=RedSportBike	type=RedSportBike	type=RedSportBike
	,							
PC104 ®	RedSportBike ®	<u>Seller</u> ® <u>Ta</u>	xAuthority ®					
Economic Resource Eco	nomic Resource Type Eco	nomic Agent Type Econ	omic Agent Type Econ	omic Event				
🗷 available 🗷 re	source-type-identified 🗵 ag	ent-type-identified 🗵 age	ent-type-identified 🗆 und	lerway				
		seller role=T	ax Authority	nt-complete				
□ exchanged sugget	ested price=800 ested VAT/MOMS=200							
owner=Party100								
serial number=PC104 type=RedSportBike								
22								

Business Event #11: Seller: Yes, I have the bikes that you want

Stimuli: Track business process descriptions (quotation); Accept a contract (accept-contract)
From: seller; To: buyer; Document: Quotation;

Process1 Business Process Detail ☐ catalogue-requested ☐ catalogue-received ☐ quotation-requested ☐ order-received ☐ counter-order-received ☐ order-accepted ☐ paid ☐ despatched	Process1 Business Process Overview planning identification regotiation actualization post-actualization	Contract1 Economic Contract in offered in accepted in contract-complete buyer party=Party200 contract date=2020-06-01 cost-12000 currency-Dai planned delivery=PlanDel1 sale type=wholesale seller party=Party100 VAT/MOMS~3000	PlanDell Economic Commitment proposed specified commitment-complete item=GreenSportBike planned date=2020-06-15 planned quantity=10 receiver party=Party200 sender party=Party100	agent-type-iden	Type Economic I resource-texchange USD=proper name=I	ype-identified de	DeliveryType ® Economic Event Type event-type-identified	GreenSportBike Economic Resource Type Eresource-type-identified price currency=Dai suggested price=1200 suggested VAT/MOMS=300
goods-received abandoned completed Party100 Economic Agent participating balance=0 currency=Dai name=Bill's Bikes Manufact	Party200 Economic Agent participating balance=100000 currency=Dai uuring mane=Jonas's Bike Sho	balance=0 currency=Dai	■ event-type-identified resource type=dai	□ reserved	PC002 ® Economic Resource ☑ available □ reserved □ exchanged	PC003 Economic Resource available reserved exchanged	© PC004 © Economic Resource ☑ available □ reserved □ exchanged	PC005 Economic Resource ☑ available □ reserved □ exchanged
☑ available ☐ reserved ☐ exchanged owner=Party100 ☐ when	pc007	8 PC009 esource available reserved exchanged owner=Party100	© PC010 © Economic Resource ☑ available ☐ reserved ☐ exchanged owner=Party100 ☐	available [reserved [exchanged] wner=Party100	available □ reserved □ exchanged □ exchanged	owner=Party100 serial number=PC00: type=GreenSportBike PC101 & Economic Resource available reserved exchanged owner=Party100	PC102 ® Economic Resource available reserved exchanged owner=Party100	owner=Party100 serial number=PC005 type=GreenSportBike PC103 & Economic Resource available reserved exchanged owner=Party100
PC104 © Economic Resource available price price	esource-type-identified ag	seller ® Ta onomic Agent Type gent-type-identified ☑ age	**XAuthority ** omic Agent Type ent-type-identified Und	ype=GreenSportBike to	serial number=PC100 type=RedSportBike	serial number=PC101 type=RedSportBike	serial number=PC102 type=RedSportBike	serial number=PC103 type=RedSportBike

Business Event #12: Buyer: Okay, here is an order for green bikes

Stimuli: Track business process descriptions (order); Accept a contract (modify-contract); Commitment to pay (propose-commitment); Payment to be made (identify-available-resource) From: buyer; To: seller; Document: Order;

			Fioni. buyer,	To. seller, Document. Order,			
Process1	Process1	<u>Contract1</u>	PlanDel1	<u>PlanPay1</u>	<u>Buyer</u> ®	<u>Dai</u>	<u>Dail</u> ®
Business Process Detail	Business Process Overview	Economic Contract	Economic Commitment	Economic Commitment	Economic Agent Type	Economic Resource Type	Economic Resource
	🗷 planning	☑ offered	□ proposed	proposed proposed	■ agent-type-identified	resource-type-identified	available available
catalogue-received	identification	accepted accepted	specified	□ specified	role=buyer	exchange USD=1.0 proper name=Dai	□ reserved
quotation-requested	■ negotiation	☐ contract-complete	□ commitment-complete	☐ commitment-complete		resource type=cryptocurrency	□ exchanged
	□ actualization	buyer party=Party200 contract date=2020-06-01	item=GreenSportBike planned date=2020-06-15	contract~Contract1 planned allocation~Dail			amount~15000 from~Party200
☑ order-received	□ post-actualization		planned quantity=10	planned date~2020-06-10	i		resource type~Dai
☐ counter-order-received			receiver party=Party200 sender party=Party100	planned receiver amount~12000 planned VAT/MOMS~3000	0		
□ order-accepted	 	planned delivery-riambell planned payment~PlanPayl	sender party-rarty100	planned VAI/MOMS~3000	- i		
□ paid		sale type=wholesale seller party=Party100					
☐ despatched		VAT/MOMS=3000					
☐ goods-received	1						
□ abandoned							
□ completed	 						
DeliveryType ®	GreenSportBike ®	Party100	® Party200	Party300 ®	PaymentType ®	PC001 ® PC002	® PC003 ®
Economic Event Type	Economic Resource Type	Economic Agent	Economic Agent			omic Resource Economic Re	source Economic Resource
vent-type-identified	resource-type-identified	▼ participating		- I ————— I —		vailable 🗷 available	
delivery-type=wholesale	price currency=Dai	balance=0	balance=100000	balance=0 res		served reserved	□ reserved
		currency=Dai name=Bill's Bikes Manufactur:	currency=Dai ing name=Jonas's Bike Sho	currency=Dai p name=Danish Tax Agency	□ ex	schanged	□ exchanged
Ľ		type=Seller	type=Buyer	type=TaxAuthority		=Party100 owner=Party10	
	Ľ	wallet=0x4cFa2eDE	wallet=0xdF86f112	wallet==0xdA9f23F4		ll number=PC001 serial number GreenSportBike type=GreenSpo	
<u>PC004</u> ®	PC005 ® PC00		PC008 ®	PC009 ® PC01		® <u>PC100</u> ®	PC101 ®
Economic Resource Econ				conomic Resource Economic R			nomic Resource
	vailable 🗷 available	available		available available			vailable
	served reserved	□ reserved		reserved reserved			eserved
	changed			exchanged exchange			xchanged
	=Party100 owner=Party1 11 number=PC005 serial numbe			ner=Party100 owner=Party rial number=PC009 serial number			r=Party100 al number=PC101
	GreenSportBike type=GreenSp			pe=GreenSportBike type=GreenSp			=RedSportBike
PC102 ®	PC103 ® PC10	4 ® RedSportBi	ke ® Seller	® TaxAuthority	(R)		
	omic Resource Economic R						
	vailable Zavailable	resource-type-ide					
	served available	price currency=Dai	role=seller	role=Tax Authority	□ event-complete		
	changed \Box reserved \Box exchange	suggested price=800		Total Tan Indensity	- cvent-complete		
	=Party100	suggested VAT/MOMS=	200				
serial number=PC102 seria	l number=PC103 serial numbe	r=PC104					
type=RedSportBike type=	RedSportBike type=RedSpor	tBike					

Business Event #13: Seller: Deal! The order is acceptable

Stimuli: Track business process descriptions (response-simple-accept); Add actual price (reserve); Pay for an order (accept-commitment)

From: seller; To: buyer; Document: Order Response Simple;

destination of the control of the			<u> </u>	Troin. sener, 10. buye				
datalogue-requested data planning datalogue-requested data	Process1	Process1	Contract1	<u>PlanDel1</u>	<u>PlanPay1</u>	<u>Buyer</u> ®	<u>Dai</u> ®	<u>Dai1</u> ®
destination of the control of the	Business Process Det	ail Business Process Overview	v Economic Contract	Economic Commitment	Economic Commitment	Economic Agent Type	Economic Resource Type	Economic Resource
datalogo-received digutation-received	□ catalogue-requested	l 💹 planning	✓ offered	□ proposed	☑ proposed	■ agent-type-identified		■ available
## Quotation-requested of a general processor of the communities of th						_ 5 51		I <u> </u>
Qualifornicected Countric protected Countric		-	•	L L =		Ţ		
Order-received Dodd-actualization Counter-order-received Dodd-actualization Dodd-ac			·			-	resource type=cryptocurrency	<u> </u>
Counter-order-cerved control reserved Section Counter Coun			contract date=2020-06-01			i i		
Contact Cont						0		resource type=Dai
DeliveryType GreenSportBike Party100 Economic Resource E		ved !				Ĭ		
Geometric Geom					-			
Pools Pool								
DeliveryType Commin Resource Economic Re		i						
DeliveryType Economic Event Type Economic Resource Type Economic Agent Economic Age				_				
Party100 Partype Party100 Partype Party100 Partype Party100 Partype		i						
Economic Event Type Conomic Event Type Conomic Resource Conomic Agent	_ completed							
Economic Event Type Conomic Event Type Conomic Resource Conomic Agent								
Production Pro								
price currency-Dail auggested price-proposition and price currency-Dail auggested price-proposition and price-				Economic Agent				
Suggested VAT/MOMS-300 Currency-Dail name-Danish Tax Agency type=Red VAT/MOMS-300 Tax Authority valiet=DxxA9f.23F4 Currency-Dail name-Danish Tax Agency type=RedSportBike Teserved								
Suggested VAT/MOMS=300 Anamemalis's Bike Manufacturing type=Suger Lype=Suger	delivery-type=wholesal							
type=Seller wallet=0xdeFs2eDB						□ e:	xchanged □ exchanged	☐ exchanged
PC004 PC005 PC006 PC007 PC008 PC009 PC010 PC011 PC011 PC009 PC009 PC011 PC009 PC011 PC009 PC011 PC009 PC011 PC009 PC011 PC009 PC009 PC011 PC009 PC011 PC009 PC009 PC011 PC009 PC009 PC011 PC009 PC011 PC009 PC009 PC009 PC009 PC009 PC011 PC009 PC009 PC009 PC009 PC011 PC009			type=Seller	type=Buyer	type=TaxAuthority			
PC004 * PC005 * PC006 * PC007 * PC008 * PC009 * PC010 * PC011 * PC000 * PC011 * PC000			wallet=0x4cFa2eDE	wallet=0xdF86f112	wallet==0xdA9f23F4			
PC004 © PC005 © PC006 © PC007 © PC008 © PC010 © PC011 © PC101						seria	al number=PC001 serial number	=PC002 serial number=PC00
Conomic Resource Economic Resource Econo						type:	=GreenSportBike type=GreenSpo	rtBike type=GreenSportBik
Conomic Resource Economic Resource Econo	DC004 ®	PCOOF R PCOO	0.6 R - DC007		PC000 R - PC01	10 ® DC011	® PC100 ®	DC1 01 ®
available								
reserved				_ '				
exchanged exch								
actual price-1200 actual	✓ reserved					reserved		
actual VAT/MOMS~300		<u> </u>	ged	□ exchanged □			_	
wner=Party100 owner=Party100 serial number=PC004 serial number=PC005 type=GreenSportBike type=GreenSportBi			ce~1200	■ actual price~1200 ■ ac				
PC102 PC103 PC104 Economic Resource Economic Resource Economic Resource								
PC102 © PC103 © Economic Resource Economic Resource Economic Resource Economic Resource Economic Resource Economic Resource Economic Resource Economic Resource Economic Resource Economic Resource Economic Resource Economic Resource Economic Resource Economic Resource Economic Resource Economic Agent Type Economic Agent Type Economic Event I agent-type-identified I agent-t							<u> </u>	
Conomic Resource Economic Agent Type Economic Agent Ty	type=GreenSportBike	type=GreenSportBike type=GreenS	SportBike type=GreenSportBil	ke type=GreenSportBike ty	pe=GreenSportBike type=GreenS	portBike		
Conomic Resource Economic Agent Type Economic Agent Ty	PC102 ®	PC103 ® PC1	04 ® PodSnortB	ika R Sallam	R TayAuthowiter	R		
available			_		·	·		
reserved res				<u> </u>	51 51			
exchanged exchanged exchanged owner=Party100 owner=Party100 serial number=PC102 serial number=PC103 serial number=PC104 serial number=PC								
d excnanged			suggested price-9		role=Tax Authority	☐ event-complete		
erial number=PC102 serial number=PC103 serial number=PC104			ged suggested VAT/MOMS					

Business Event #14: Buyer: Okay, here is the payment

Stimuli: Track business process descriptions (remittance-advice); Payment (initiate-event); Payment to be made (reserve); Payment added to contract wallet (modify-contract); Payment removed from buyer's wallet (modify-agent)

From: buyer; To: seller; Document: Remittance Advice;

		r					
Process1	<u>Process1</u>	<u>Contract1</u>	<u> Pay1</u>	<u>PlanDel1</u>	<u>PlanPay1</u>	<u>Buyer</u> ®	<u>Dai</u> ®
Business Process Detail	Business Process Overview	Economic Contract	Economic Event	Economic Commitment	Economic Commitment	Economic Agent Type	Economic Resource Type
☑ catalogue-requested		☑ offered	✓ underway	proposed proposed	proposed	agent-type-identified	
catalogue-received	identification	accepted accepted	□ event-complete			role=buyer	exchange USD=1.0
quotation-requested	negotiation	□ contract-complete	allocation sf~Dail	☐ commitment-complete	□ commitment-complete		proper name=Dai resource type=cryptocurrency
quotation-received	actualization	buyer party=Party200	contract~Contract1 event type~PaymentType	item=GreenSportBike	contract=Contract1		
order-received	□ post-actualization		payment date~2020-06-10	planned date=2020-06-15 planned quantity=10	planned allocation=Dai1 planned date=2020-06-10		
☐ counter-order-received		currency=Dai	planned payment~PlanPayl receiver amount~12000	receiver party=Party200	planned receiver amount=12000		
order-accepted		<pre>planned delivery=PlanDel1 planned payment=PlanPay1</pre>	VAT/MOMS~3000	sender party=Party100	planned VAT/MOMS=3000		
☑ paid		sale type=wholesale		•			
☐ despatched		seller party=Party100					
□ goods-received		VAT/MOMS=3000 wallet balance~15000					
☐ abandoned		wallet currency~Dai					
□ completed							
L -	1						
Dail ® De	eliveryType ® Gre	enSportBike ®	Party100 ®	Party200 ®	Party300 ® Paym	entType ® PC	001 ® <u>PC002</u> ®
Economic Resource Eco	nomic Event Type Econor	nic Resource Type	Economic Agent	Economic Agent	Economic Agent Econom	ic Event Type Economic	c Resource Economic Resource
🗷 available 🗵 ev	rent-type-identified resou	rce-type-identified part	icipating	□ participating	participating vent-	type-identified 🗵 availal	ble 🗷 available
	<u> </u>	rrency=Dai balance		1 1 5	lance=0 resource		
□ exchanged		ed price=1200 currenc			rrency=Dai	□ exchar	
amount=15000	suggeste	ed VAT/MOMS=300 name=Bi	.ll's Bikes Manufacturing		me=Danish Tax Agency pe=TaxAuthority	actual pr	
from=Party200			0x4cFa2eDE		11et==0xdA9f23F4		T/MOMS=300 actual VAT/MOMS=300
resource type=Dai						owner=Par serial nu	ty100 owner=Party100 mber=PC001 serial number=PC002
							nSportBike type=GreenSportBike
PC003 ®	PC004 ® PC00	- I	PC007 ®		PC009 ® PC010	® <u>PC011</u> ®	PC100 ®
	omic Resource Economic R		· I ——— I -		nic Resource Economic Resource	_ I ———— I :	Economic Resource
	railable 🗷 available	available		available ✓ avai	_		▼ available
	served 🗷 reserved		☑ reserved ☑				reserved
	changed		□ exchanged □	exchanged = exch		_ .	□ exchanged
	1 price=1200 actual price 1 VAT/MOMS=300 actual VAT/M				price=1200 actual price=1200 VAT/MOMS=300 actual VAT/MOMS=3		owner=Party100 serial number=PC100
	=Party100 owner=Party1			wner=Party100 owner=Party100			type=RedSportBike
	1 number=PC004 serial numbe				number=PC009 serial number=PC0		
type=GreenSportBike type=	GreenSportBike type=GreenSp	ortBike type=GreenSportBik	type=GreenSportBike t	ype=GreenSportBike type=Gr	eenSportBike type=GreenSportBi	ke	
PC101 ®	PC102 ® PC10	3 ® PC104	RedSportBike	® Seller	® TaxAuthority ®		
	omic Resource Economic R						
			- 	71 2 71			
		■ available	resource-type-identif	fied agent-type-identific	agent-type-identified role=Tax Authority		
	served reserved	reserved	suggested price=800	1016-Sellet	TOTE-TAX MUCHOLITY		
	changed	I	suggested VAT/MOMS=200				
	-Party100 owner=Party1 1 number=PC102 serial numbe		4				
	RedSportBike type=RedSpor						

Business Event #15: Seller: Thank you, I have despatched 10 green bikes

Stimuli: Track business process descriptions (despatch-advice); Delivery (initiate-event)
From: seller; To: buyer; Document: Despatch Advice;

			r	·	1		1
<u>Process1</u>	Process1	Contract1	<u>Del1</u>	Pay1	<u>PlanDel1</u>	<u>PlanPay1</u>	<u>Buyer</u> ®
Business Process Detail	Business Process Overview	Economic Contract	Economic Event	Economic Event	Economic Commitment	Economic Commitment	Economic Agent Type
catalogue-requested	🗷 planning	☑ offered	☑ underway	underway	proposed	▼ proposed	agent-type-identified
catalogue-received	identification	accepted	□ event-complete	□ event-complete			role=buyer
quotation-requested		□ contract-complete	actual date~2020-06-10 actual quantity~10	allocation sf=Dail contract=Contract1	□ commitment-complete	□ commitment-complete	
quotation-received	actualization act	buyer party=Party200 contract date=2020-06-01	event type~DeliveryType	event type=PaymentType	item=GreenSportBike planned date=2020-06-15	contract=Contract1 planned allocation=Dai1	
order-received	□ post-actualization	cost=12000	item~GreenSportBike	payment date=2020-06-10	planned quantity=10	planned date=2020-06-10	
☐ counter-order-received		currency=Dai	planned delivery~PlanDell receiver party~Party200	planned payment=PlanPay1 receiver amount=12000	receiver party=Party200	planned receiver amount=12000	
order-accepted		planned delivery=PlanDel1 planned payment=PlanPay1	sender party~Party100	VAT/MOMS=3000	sender party=Party100	planned VAT/MOMS=3000]
paid		sale type=wholesale					
despatched		seller party=Party100 VAT/MOMS=3000					
□ goods-received		wallet balance=15000					
□ abandoned] 	wallet currency=Dai					
□ completed							
<u>Dai</u>	® <u>Dai1</u> ®	DeliveryType ® G	reenSportBike ®	Party100	® <u>Party200</u> ®		aymentType ®
Economic Resource Type	Economic Resource Ec	conomic Event Type Eco	nomic Resource Type	Economic Agent	Economic Agent	Economic Agent Econ	nomic Event Type
resource-type-identified	🗷 available	event-type-identified 🗵 re	source-type-identified	participating		□ participating	ent-type-identified
exchange USD=1.0	▼ reserved del	ivery-type=wholesale price	currency=Dai ba	lance=0	balance=85000	balance=0 resour	ce type=dai
proper name=Dai resource type=cryptocurren	□ exchanged			rrency=Dai me=Bill's Bikes Manufacturi	currency=Dai .ng name=Jonas's Bike Shop	currency=Dai name=Danish Tax Agency	-
resource type-cryptocurren	amount=15000	sugge		pe=Seller	type=Buyer	type=TaxAuthority	
	from=Party200 resource type=Dai		wa:	llet=0x4cFa2eDE	wallet=0xdF86f112	wallet==0xdA9f23F4	
	resource type-bar						
PC001 ®	PC002 ® PC003	3 ® PC004	® PC005 ®	PC006 ® I	PC007 ® PC008	® PC009 ®	PC010 ®
	omic Resource Economic R				nic Resource Economic Res		conomic Resource
	vailable Z available	■ available	<u> </u>	available 🗵 avai			available
- 	served reserved	reserved	· — ·	reserved rese	_	reserved E	
	schanged = reserved = exchange		·	exchanged \square exch	_		exchanged
	al price=1200 actual price				price=1200 actual price=		ctual price=1200
actual VAT/MOMS=300 actua	1 VAT/MOMS=300 actual VAT/M	OMS=300 actual VAT/MOMS=30	0 actual VAT/MOMS=300 ac	ctual VAT/MOMS=300 actual	VAT/MOMS=300 actual VAT/MOM	MS=300 actual VAT/MOMS=300 ac	ctual VAT/MOMS=300
	=Party100 owner=Party1 11 number=PC002 serial numbe				owner=Party100 number=PC007 serial numbers		wner=Party100 erial number=PC010
	GreenSportBike type=GreenSp				eenSportBike type=GreenSpo		pe=GreenSportBike
						· · · · · · · · · · · · · · · · · · ·	
PC011 ®	PC100 ® PC10:	1 ® <u>PC102</u>	® <u>PC103</u> ®	PC104 ® Re	edSportBike ®	Seller ® TaxAut	thority ®
Economic Resource Econ	omic Resource Economic R	esource Economic Resourc	e Economic Resource E	conomic Resource Econo	omic Resource Type Econ	omic Agent Type Economic	Agent Type
🗷 available 🗷 av	vailable 🗵 available		☑ available ☑	available 🗵 reso			pe-identified
	served reserved	□ reserved			currency=Dai role=s		
	changed \square exchange			avahangad suggest	ed price=800	,	
	=Party100 owner=Party1		_ _	mer=Party100 suggest	ed VAT/MOMS=200		
serial number=PC011 seria	1 number=PC100 serial numbe		2 serial number=PC103 se	erial number=PC104			
type=GreenSportBike type=	RedSportBike type=RedSpor	tBike type=RedSportBike	type=RedSportBike ty	pe=RedSportBike			

Business Event #16: Buyer: Thank you, I have received 10 green bikes

Stimuli: Track business process descriptions (receipt-advice); Accept an order (exchange); Delivery completed (complete-commitment); Delivery completed (complete-event) From: buyer, To: seller; Document: Receipt Advice;

					rioiii. buyei,	10: seller, Document: Rece	ipt Advice,						
Process1	Proc	ess1	Cont	ract1	Pay1	PlanPa	<u>ay1</u>	Ī	Buyer	® <u>D</u>	ai ®	Į į	Dail ®
Business Process De	etail Business Proc	ess Overview	Economic	c Contract	Economic Event	Economic Cor	nmitment	Econom	ic Agent Typ	e Economic R	esource Type	Econon	nic Resource
	d 🗷 planning		✓ offered	<u> </u>	underway	□ proposed □ proposed		🗷 agent-	type-identifie	ed 🗷 resource-ty	pe-identified	🗷 avai	lable
catalogue-received		on	accepted		event-complete	specified		role=buye	r	exchange USD=		🗷 resei	rved
quotation-requeste			□ contract-c	complete	llocation sf=Dail	□ commitment-c				proper name=Da resource type:	:cryptocurrency	□ exch	nanged
quotation-received		on	buyer party=	Party200	ontract=Contract1 vent type=PaymentType	contract=Contract						amount=	
order-received	□ post-actual	ization	contract date	e=2020-06-01	ayment date=2020-06-1	0 planned date=2020						from=Pa resourc	rty200 e type=Dai
☐ counter-order-rece	ived		currency=Dai		lanned payment=PlanPa eceiver amount=12000	planned receiver							
☑ order-accepted	i i		planned deli-	very=PlanDell	AT/MOMS=3000	planned VAT/MOMS=	=3000						
☑ paid	i		sale type=wh	olesale									
✓ despatched ✓ despatched			seller party: VAT/MOMS=300										
	i i		wallet balan										
□ abandoned	- i		wallet curre	ncy=Dai									
□ completed	 _												
				. 100	®	®I 5-11 2	00 01	5	— 0	DG011	2 2010	<u> </u>	DQ101 @
DeliveryType				rty100 mic Agent	Party200 Economic Ager	® Party30 nt Economic A		Payment conomic Ev		<u>PC011</u> Economic Resourc	PC10 E Economic R	_	PC101 ® Economic Resource
Economic Event Typ		71			- I 				71				
event-type-identified			participatin	ıg	participating	participating		event-type-		available	■ available		■ available
delivery=type-wholesa	suggested price		urrency=Dai		currency=Dai	currency=Dai	res	source type-		reserved	□ reserved	a I	reserved
	suggested VAT/M		ame=Bill's Bi	kes Manufacturin						□ exchanged	□ exchange owner=Party1		□ exchanged owner=Party100
			.ype=seller vallet=0x4cFa.	.2eDE	type=Buyer wallet=0xdF86f11	type=TaxAuthor. 2 wallet==0xdA9f			2	serial number=PC01	l serial numbe	r=PC100	serial number=PC101
		<u></u>							L	ype=GreenSportBik	e type=RedSpor	tBike	type=RedSportBike
PC102 ®	PC103 ®	PC104	1 ®	RedSportBik	e ® Sell	er ® Tay	Authority	® ©	Del1	: O D	LanDel1		PC001
Economic Resource	Economic Resource	Economic Re		onomic Resource			nic Agent Tyj		Economic Eve		ic Commitment	Econo	omic Resource
☑ available	□ available	☑ available		esource-type-iden			t-type-identifi		derway	x propo		- }	ailable
□ reserved	□ reserved	□ reserved		e currency=Dai	role=seller		Authority		ent-complete				served_
□ exchanged	□ exchanged	□ exchanged	sugge	ested price=800					date=2020-0	:	itment-complet		changed
owner=Party100	owner=Party100	owner=Party10	suqq	ested VAT/MOMS=20	00			actual	quantity=10	item=Gree	nSportBike		l price~1200
serial number=PC102	serial number=PC103	serial number							type=Deliver GreenSportBik	planned o	ate=2020-06-15		1 VAT/MOMS~300
type=RedSportBike	type=RedSportBike	type=RedSport	tBike						ed delivery=P	landell receiver	uantity=10 party=Party200		ery~Del1 ~Party200
									rer party=Par : party=Party		rty=Party100		l number=PC001
								i				type=0	GreenSportBike
© PC002	© PC003	© PC004	1 °	PC005	© PC006	© PC007	© PC00	08	PC009	© PC	010		
Economic Resource						:	•				•		
🗵 available	🗷 available	available	:	vailable	available availab	🗷 available	available	: -	available	∠ availal			
	reserved_				☑ reserved	🗷 reserved] [z reserved	🗷 reserve	:		
	✓ exchanged		d ⊿ e	eserved xchanged	✓ exchanged	exchanged		ed	✓ exchanged				
	actual price~1200	actual price-	-1200 actua	al price~1200	actual price~1200	actual price~1200	actual pric	:e~1200 å	actual price~	1200 actual pr			
actual VAT/MOMS~300 delivery~Del1	actual VAT/MOMS~300 delivery~Del1	actual VAT/MC		al VAT/MOMS~300 verv~Dell	actual VAT/MOMS~300 delivery~Del1	actual VAT/MOMS~300 delivery~Del1	actual VAT/		actual VAT/MO delivery~Dell				
owner~Party200	owner~Party200	owner~Party20	00 owne:	r~Party200	owner~Party200	owner~Party200	owner~Party	200	owner~Party20	0 owner~Par	y200		
serial number=PC002 type=GreenSportBike	serial number=PC003	serial number		al number=PC005	serial number=PC006 type=GreenSportBike	serial number=PC007	serial numb			=PC009 serial nu			
type=GreensportBlKe	type=GreensportBike	. Lype=GreenSpo	orrerke type:	-GreensportBike	type=GreenSportBlke	type=GreenSportBlKe	. Lype=GreenS	portbike t	.ype=GreenSpo	rrprke type=Gree	aportBike		

Business Event #17: Seller: We're square, here is your invoice

Stimuli: Track business process descriptions (invoice); Transfer the funds (exchange); Payment added to other wallets (modify-agent); Payment completed (complete-event); Payment and delivery made (complete-commitment); Contract completed (complete-contract) From: seller; To: buyer; Document: Invoice;

				From: sell	er; To: buyer; Document: Ir	ivoice;			
Economic Agent Type Buyer Economic Agent Type agent-type-identified role=buyer	Economic Rese Tesource-type	ource Type -identified Econ Evolution Evolution	ent-type-identified pry-type=wholesale	GreenSportBike Economic Resource Typ I resource-type-identification currency=Dai suggested price=1200 suggested VAT/MOMS=300	oe Economi	c Agent IX	Party200 ® Economic Agent participating .ance=85000 rencyDai te=Jonas's Bike Shop te=Buyer .let=0xdF86f112	Party300 ® Economic Agent ✓ participating balance~3000 currency=Dai name=Danish Tax Agency type=TaxAuthority wallet==0xdA9f23F4	PaymentType ® Economic Event Type event-type-identified resource type=dai
	pc100 ® conomic Resource available reserved exchanged ner=Party100 rial number=Pc100 pe=RedSportBike	PC101	PC102	□ available □ reserved □ exchanged owner=Party100	PC104 ® Economic Resource ☑ available □ reserved □ exchanged owner=Party100 serial number=PC104 type=RedSportBike	RedSportBi Economic Resour Tesource-type-id price currency-Bai suggested price=80 suggested VAT/MOMS:	Economic Economic agent-ty role=seller	Agent Type Econom pe-identified agent	authority ® nic Agent Type -type-identified Authority
© Process1 Business Process Detai ☐ catalogue-requested ☐ quotation-requested ☐ quotation-received ☐ counter-order-received ☐ paid ☐ despatched ☐ goods-received ☐ abandoned ☐ completed	☐ planning ☐ identification ☐ negotiation ☐ actualization ☐ post-actuali	ess Overview Exactua actua actua actua cost= currec plann plann plann sale selle VAT/M walle	cepted ntract-complete delivery~Dell payment~Pay1 party=Party200 act date=2020-06-01	Economic Event Underway vevent-complete actual date=2020-06-10 actual quantity=10 event type=DeliveryTyp item=GreenSportBike planned delivery=PlanD receiver party=Party20 sender party=Party100	payment date=202 ell planned payment=	vent Econom Propos	ed X	PlanPay1 Economic Commitment proposed specified commitment-complete tract=Contract1 nned allocation=Dai1 nned date=2020-06-10 nned receiver amount=120 nned VAT/MOMS=3000	Dail Economic Resource available crearved crearved crearved mount=15000 from=Party200 resource type=Dai tol-amount-12000 tol-party-Party100 to2-party-Party300
available	PC002 conomic Resource available reserved exchanged tual price=1200 tual VAT/MOMS=300 livery=Del1 ner=Party200 rial number=PC002 pe=GreenSportBike	© PC003 Economic Resource Available Freserved Exchanged actual price=1200 actual VAT/MOMS=300 delivery=Dell owner=Party200 serial number=PC003 type=GreenSportBike	delivery=Del1 owner=Party200 serial number=PC004	☑ available ☑ reserved ☑ exchanged actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC005	PC006 Economic Resource available reserved wear example actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC006 type=GreenSportBike	Economic Resourc available reserved reserve			PC010 Economic Resource available reserved actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC010 type=GreenSportBike

Business Event #18: Buyer: Do you have the red bikes that I want?

Stimuli: Establish business process descriptions (request-quotation); Initiate a contract (offer-contract); Commitments to contracts and deliveries (propose-commitment); Payment to be made (identify-available-resource)

From: buyer; To: seller; Document: Request For Quotation;

Process2 Business Process Detail	<u>Process2</u> Business Process Overviev	Contract2 Economic Contract	<u>PlanDel2</u> Economic Commitment	Buyer ® Economic Agent Type	<u>Dai</u> Economic Resour			veryType ® nic Event Type
☐ catalogue-requested	□ planning □ identification □ negotiation □ actualization □ post-actualization	✓ offered □ accepted □ contract-complete buyer party~Party200	☐ proposed☐☐ specified☐☐ commitment-complete☐☐ tem=RedSportBike☐☐ planned date=2020-07-15	■ agent-type-identified role=buyer	resource-type-id exchange USD=1.0 proper name=Dai resource type=crypt	lentified availab	ole delivery- delous delivery- nged 000 y200	type-identified -type=wholesale
GreenSportBike Economic Resource Type resource-type-identified	Party100 Economic Agent participating	### Party200 Economic Agent Marticipating balance=85000 currency=Dai name=Jonas's Bike Sitype=Buyer wallet=0xdF86f112	<pre> Party300</pre>	PaymentType ® Economic Event Type © event-type-identified resource type=dai	PC011 Economic Resource available reserved exchanged owner=Party100 serial number=PC011 type=GreenSportBike			
	omic Resource railable served price curre suggested is	Resource Type -type-identified noy=Dai Economic agent-type-role=selle	Caller	Agent Type e-identified fority Business Proceedings of Catalogue catalogue quotation quotation corder-recedent	requested requested requested requested received received reter-received repted red red red red red red red	Process1 ness Process Overview lanning lentification egotiation ctualization ost-actualization	Contract Economic Con Soffered Caccepted Caccepted Contract-complicatual delivery-Deactual payment-Pay buyer party-Party contract date=2020 cost=12000 currency-Dain planned delivery-I planned payment-Pi sale type-wholesal seller party-Party VAT/MOMS-3000 wallet balance-0 wallet currency-Daine	ete
Economic Event underway vevent-complete actual date=2020-06-10 actual quantity=10 event type=DeliveryType item=GreenSportBike planned delivery=PlanDel1 receiver party=Party200 sender party=Party100	Economic Event Economic Event underway event-complete allocation sf=Dail contract=Contractl event type=PaymentType payment date=2020-06-10 planned payment=PlanPay1 receiver amount=12000 VAT/MOMS=3000	specified commitment-complete item=GreenSportBike planned date=2020-06-15 planned quantity=10 receiver party=Party200	PlanPay1 Economic Commitment proposed specified commitment-complete contract=Contract1 clanned allocation=Dai1 clanned date=2020-06-10 clanned receiver amount=12000 clanned VAT/MOMS=3000	available	available reserved ctual price=1200 ctual VAT/MOMS=300 elivery=Del1 wmer=Party200 erial number=PC001	available reserved exchanged actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC002	Economic Resource available reserved exchanged actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC003 type=GreenSportBike	Economic Resource available reserved cxchanged actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC004 type=GreenSportBike

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Economic Resource	Economic Resource	Economic Resource	Economic Resource	Economic Resource	Economic Resource
🗵 available	🗵 available	🗵 available	🗷 available	🗵 available	🗵 available
: 🗷 reserved		🗷 reserved		🗷 reserved	
exchanged					
actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC005 type=GreenSportBike	actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC006 type=GreenSportBike	actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC007 type=GreenSportBike	actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC008 type=GreenSportBike	delivery=Del1 owner=Party200 serial number=PC009	actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC010 type=GreenSportBike

Business Event #19: Seller: Well, I have some of the bikes that you want but not all

Stimuli: Track business process descriptions (quotation); Accept a contract (accept-contract); Commitments to contracts and deliveries (modify-commitment)

From: seller; To: buyer; Document: Quotation;

			From: seller; To	: buyer; Document: Quotation;				
quotation-requested	Process2 Business Process Overview □ planning ☑ identification □ negotiation □ actualization □ post-actualization	Contract2 Economic Contract ☑ offered ☑ accepted ☐ contract-complete buyer party=Party200 contract date=2020-07-01 cost-4000 planned delivery=PlanDel2 sale type=wholesale seller party=Party100 VAT/MOMS-1000	PlanDel2 Economic Commitment ✓ proposed □ specified □ commitment-complete item=RedSportBike planned date=2020-07-15 planned quantity-5 receiver party=Party200 sender party=Party100	Buyer ® Economic Agent Type ☑ agent-type-identified role=buyer	Dai Economic Resource Typ resource-type-identified exchange USD=1.0 proper name=Dai resource type=cryptocurro	d available □ reserved □ evenage	Resource Economi E event-t delivery-t	c Event Type gpe-identified gpe=wholesale
GreenSportBike Economic Resource Type resource-type-identified price currency=Dai suggested price=1200 suggested VAT/MOMS=300	Party100 Economic Agent participating	B Party200 Economic Agent	participating balance=3000 currency=Dai	PaymentType & Economic Event Type E event-type-identified resource type=dai	■ available □ reserved □ exchanged owner=Party100 serial number=PC011	pc100 ® nomic Resource ivailable eserved exchanged er=Party100 .al number=Pc100 ==RedSportBike	PC101	PC102 ® Economic Resource available □ reserved □ exchanged owner=Party100 serial number=PC102 type=RedSportBike
□ available	omic Resource Economic	Resource Type type-identified acy=Dai cice=800 Economic agent-type-identified role=selle	E Agent Type Economic A Type-identified agent-type	Agent Type e-identified hority Business P catalogue ca	rocess Detail e-requested e-received in-requested e-received	ation ion ation ualization	Contract1 Economic Contr Contract-complet Contract-complet Contract-complet Contract-complet Contract-complet Contract-complet Contract delivery=Del Contract date=2020- Cost=12000 Currency=Dai Contract delivery=Pl Contract delivery=Pl Contract delivery=Pl Contract date=2020- Cost=12000 Currency=Dai Cost=12000 Currency=Dai Cost=12000 Currency=Dai Cost=12000 Currency=Dai Contract date=2020- Cost=12000 Contract-complet Contract	e 1 0 06-01 anDel1 nPay1
Economic Event Eunderway Event-complete actual date=2020-06-10 actual quantity=10 event type=DeliveryType item=GreenSportBike planned delivery=PlanDel1 receiver party=Party200 sender party=Party100	vent-complete allocation sf=Dail contract=Contract1 i event type=PaymentType payment date=2020-06-10 planned payment=PlanPayl receiver amount=12000 receiver a	specified commitment-complete tem=GreenSportBike planned date=2020-06-15 planned quantity=10 receiver party=Party200	PlanPay1 Economic Commitment proposed specified commitment-complete contract=Contract1 clanned allocation=Dail clanned date=2020-06-10 clanned vAT/MOMS=3000	Image:	Conomic Resource available reserved conomic Resource available reserved reserved	ilable	reserved exchanged ttual price=1200 ttual VAT/MOMS=300 tlivery=Del1 mer=Party200 trial number=PC003	Economic Resource available reserved ectual price=1200 ectual VAT/MOMS=300 delivery=Del1 wheer=Party200 eserial number=Pc004 eype=GreenSportBike

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Economic Resource	Economic Resource	Economic Resource	Economic Resource	Economic Resource	Economic Resource
🗵 available	🗵 available	🗵 available	🗷 available	🗵 available	🗵 available
: 🗷 reserved		🗷 reserved		🗷 reserved	
exchanged					
actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC005 type=GreenSportBike	actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC006 type=GreenSportBike	actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC007 type=GreenSportBike	actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC008 type=GreenSportBike	delivery=Del1 owner=Party200 serial number=PC009	actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC010 type=GreenSportBike

Business Event #20: Buyer: Okay, here is an order (contract) for red bikes

Stimuli: Track business process descriptions (order); Accept a contract (modify-contract); Commitment to pay (propose-commitment); Change payment to be made (modify-available-resource)

From: buyer; To: seller; Document: Order;

			rioiii. buyer, i	To: seller; Document: Order;					
Process2	Process2	Contract2	PlanDel2	PlanPay2	Buy	er ®	Dai	®	<u>Dai2</u> ®
Business Process Detail	Business Process Overview	Economic Contract	Economic Commitment	Economic Commitme	ent Economic A	Agent Type H	Economic Reso	urce Type	Economic Resource
catalogue-requested	□ planning	☑ offered	▼ proposed	✓ proposed		e-identified	resource-type-	identified	available available
☐ catalogue-received		accepted	□ specified	□ specified	role=buyer		change USD=1.0		□ reserved
quotation-requested	■ negotiation	☐ contract-complete	□ commitment-complete	☐ commitment-comple	ie		source type=cry	ptocurrency	□ exchanged
quotation-received	□ actualization	buyer party=Party200 contract date=2020-07-01	item=RedSportBike planned date=2020-07-15	contract~Contract2 planned allocation~Dai2					amount~5000 from=Party200
order-received	□ post-actualization	cost=4000	planned quantity=5	planned date~2020-07-10	1				resource type=Dai
counter-order-received		planned delivery=PlanDel2 planned payment~PlanPay2	receiver party=Party200 sender party=Party100	planned receiver amount planned VAT/MOMS~1000	~4000				
□ order-accepted □ paid		sale type=wholesale							
despatched		seller party=Party100 VAT/MOMS=1000							
□ goods-received									
□ abandoned									
☐ completed									
					_				
DeliveryType ®	GreenSportBike ®	Party100	® Party200 ®	Party300 ®	PaymentTy		C011 ®	PC100	
	Economic Resource Type	Economic Agent	Economic Agent	Economic Agent	Economic Event			Economic Re	
event-type-identified p	resource-type-identified rice currency=Dai	participating balance=12000	participating balance=85000	participating balance=3000	event-type-iden			available	
s	uggested price=1200	currency=Dai	currency=Dai	currency=Dai	<u> </u>	☐ reser ☐ exch	•	□ reserved□ exchanged	□ reserved □ exchanged
s	uggested VAT/MOMS=300	name=Bill's Bikes Manufactur type=Seller	ing name=Jonas's Bike Shop type=Buyer	name=Danish Tax Agency type=TaxAuthority		owner=Pa		owner=Party10	
		wallet=0x4cFa2eDE	wallet=0xdF86f112	wallet==0xdA9f23F4		serial n	number=PC011	serial number type=RedSport	=PC100 serial number=PC
	omic Resource ailable served changed =Party100 1 number=PC103 RedSportBike Conomic F available reserved exchange wwer=Party serial numb type=RedSpo	ed price currency=Dai suggested price=80(suggested VAT/MOMS=	entified agent-type-identified role=seller		entified	r-order-received accepted ched received oned	Business Pro planning identifica negotiatic actualizat post-actu	tion on tion	W Economic Contrac Soffered Contract-complete actual delivery=Deli actual payment=Payl buyer party=Party200 contract date=2020-06 cost=12000 currency=Dai planned delivery=Plan planned payment=PlanF sale type=wholesale seller party=Party100 VAT/MOMS=3000 wallet balance=0 wallet currency=Dai wallet currency=Dai
Del1	© Pay1	© PlanDel1 ©	PlanPay1	© Dail :	PC001	© PC002	 :© р	C003	© PC004
Economic Event	Economic Event	Economic Commitment	Economic Commitment	Economic Resource					Economic Resource
underway			proposed	. :	available available	available availab	avail		available availab
event-complete	🗷 event-complete	▼ specified ▼	specified	▼ reserved □	reserved	▼ reserved	🗷 reser	ved	▼ reserved
ctual date=2020-06-10		1 /	commitment-complete		exchanged				
planned delivery=PlanDell receiver party=Party200 sender party=Party100	event type=PaymentType payment date=2020-06-10 planned payment=PlanPay1 receiver amount=12000	planned date=2020-06-15 pl planned quantity=10 pl receiver party=Party200 pl sender party=Party100 pl	ntract=Contract1 anned allocation=Dail anned date=2020-06-10 anned receiver amount=12000 anned VAT/MOMS=3000	from=Party200 resource type=Dai tol-amount=12000 tol-party=Party100	actual price=1200 actual VAT/MOMS=300 delivery=Dell wwner=Party200 serial number=PC001 cype=GreenSportBike	actual price=12 actual VAT/MOMS delivery=Del1 owner=Party200 serial number=F type=GreenSport	3=300 actual \delivery owner=Pa		actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC004 type=GreenSportBike

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Economic Resource	Economic Resource	Economic Resource	Economic Resource	Economic Resource	Economic Resource
🗵 available	🗵 available	🗵 available	🗷 available	🗵 available	🗵 available
: 🗷 reserved		🗷 reserved		🗷 reserved	
exchanged					
actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC005 type=GreenSportBike	actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC006 type=GreenSportBike	actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC007 type=GreenSportBike	actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC008 type=GreenSportBike	delivery=Del1 owner=Party200 serial number=PC009	actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC010 type=GreenSportBike

Business Event #21: Seller: Deal! The order is acceptable

Stimuli: Track business process descriptions (responsee-simple-accept); Add actual price (reserve); Pay for an order (accept-commitment)
From: seller; To: buyer; Document: Order Response Simple;

Process2								
FICCESSE	Process2	Contract2	<u>PlanDel2</u>	<u>PlanPay2</u>	<u>Buyer</u>	® <u>Dai</u>	<u> </u>	Dai2
Business Process Detail	Business Process Overview	Economic Contract	Economic Commitment	Economic Commitme		ype Economic Reso	ource Type Ecor	nomic Resource
□ catalogue-requested	□ planning		proposed	☑ proposed		fied resource-type	e-identified 🗵 a	vailable
☐ catalogue-received	identification	accepted	specified specifi	specified	role=buyer	exchange USD=1.0	□ re	eserved
quotation-requested	megotiation	☐ contract-complete	☐ commitment-complete	□ commitment-complet	e	proper name=Dai resource type=cr	cyptocurrency	exchanged
quotation-received	actualization	buyer party=Party200 contract date=2020-07-01	item=RedSportBike planned date=2020-07-15	contract=Contract2 planned allocation=Dai2			amou	int=5000 n=Party200
☑ order-received	□ post-actualization	contract date=2020-07-01		planned date=2020-07-10				urce type=Dai
☐ counter-order-received	d [planned delivery=PlanDel2 planned payment=PlanPay2	receiver party=Party200 sender party=Party100	planned receiver amount: planned VAT/MOMS=1000	=4000			
		sale type=wholesale	sender party-rarty100	pranned var/MoMS-1000				
□ paid		seller party=Party100 VAT/MOMS=1000						
□ despatched		VAI/MOND-1000	_					
☐ goods-received☐ abandoned								
□ completed								
Completed	_ _'							
DeliveryType ®	GreenSportBike ®	Party100	® Party200 ®	Party300 ®	PaymentType ®	PC011 ®	PC100	® PC101 ®
Economic Event Type	Economic Resource Type	Economic Agent	Economic Agent	Economic Agent	Economic Event Type	Economic Resource	Economic Resource	
vent-type-identified	resource-type-identified	□ participating □	▼ participating	□ participating □	vent-type-identified	☑ available	available available	☑ available
delivery-type=wholesale	price currency=Dai	balance=12000	balance=85000	balance=3000	resource type=dai	□ reserved	☑ reserved	✓ reserved
	suggested price=1200	currency=Dai	currency=Dai	currency=Dai			□ exchanged	□ exchanged
	suggested VAT/MOMS=300	name=Bill's Bikes Manufactu type=Seller	ring name=Jonas's Bike Shop type=Buyer	name=Danish Tax Agency type=TaxAuthority		owner=Party100	actual price~4000	actual price~4000
	l	wallet=0x4cFa2eDE	wallet=0xdF86f112	wallet==0xdA9f23F4]	serial number=PC011 type=GreenSportBike	actual VAT/MOMS~10 owner=Party100	000 actual VAT/MOMS~1000 owner=Party100
						<u> </u>	serial number=PC10	00 serial number=PC101
							type=RedSportBike	type=RedSportBike
PC102 ®	PC103 ® PC	104 ® RedSpor	tBike ® Selle	er ® TaxAuth	ority ® © Proce	ocel :© E	Process1	© Contract1
		c Resource Economic Res					s Process Overview	e ^a
' '-								
i ki avananie i ki	Lavailable I ⊠ availab	ole 💹 resource-tyr	ne-identified X lagent-type-		 			
1	available availab				-identified Z catalogue-r	requested 🗵 plann	ning	☑ offered
☑ reserved ☑	available ☑ available ☑ reserved ☑ reserved ☐ exchanged ☐ exchanged	price currency=	-Dai role-seller e=800	identified 🗵 agent-type	-identified	requested plann received identi	iing ification	☑ offered ☑ accepted
☐ reserved☐ ☐ exchanged☐ ☐ actual price~4000☐ actu	reserved	price currencysugged suggested price suggested VAT/h	-Dai role-seller e=800	identified 🗵 agent-type	-identified Z catalogue-r	requested plann received identification requested negot	ing ification tiation	☑ offered ☑ accepted ☑ contract-complete actual delivery=Del1
☐ reserved☐ ☐ exchanged☐ actual price~4000☐ actual VAT/MOMS~1000☐	reserved	price currency suggested price suggested VAT/h	-Dai role-seller e=800	identified 🗵 agent-type	-identified	requested plann received identi requested negot received actual	ing ification tiation	☑ offered ☑ accepted ☑ contract-complete actual delivery=Del1 actual payment=Pay1
☐ exchanged actual price~4000 actual VAT/MOMS~1000 owner=Party100 serial number=Pc102 serial number=Pc102	reserved	price currency- suggested price suggested VAT/h r/MOMS-1000 typ100 mber=PC104	-Dai role-seller e=800	identified 🗵 agent-type	-identified	requested	ning ification tiation lization	☑ offered ☑ accepted ☑ contract-complete actual delivery=Del1 actual payment=Pay1 buyer party=Party200 contract date=2020-06-01
☐ exchanged actual price~4000 actual VAT/MOMS~1000 owner=Party100 serial number=Pc102 serial number=Pc102	reserved	price currency- suggested price suggested VAT/h r/MOMS-1000 typ100 mber=PC104	-Dai role-seller e=800	identified 🗵 agent-type	identified	requested	ning ification tiation lization	☑ offered ☑ accepted ☑ contract-complete actual delivery=Del1 actual payment=Pay1 buyer party=Party200 contract date=2020-06-01 cost=12000
☐ exchanged actual price~4000 actual VAT/MOMS~1000 owner=Party100 serial number=Pc102 serial number=Pc102	reserved	price currency- suggested price suggested VAT/h r/MOMS-1000 typ100 mber=PC104	-Dai role-seller e=800	identified 🗵 agent-type	identified ority	requested	ning ification tiation lization	☑ offered ☑ accepted ☑ contract-complete actual delivery=Del1 actual payment=Pay1 buyer party=Party200 contract date=2020-06-01 cost=12000 currency=Dai planned delivery=PlanDel1
☐ exchanged actual price~4000 actual VAT/MOMS~1000 owner=Party100 serial number=Pc102 serial number=Pc102	reserved	price currency- suggested price suggested VAT/h r/MOMS-1000 typ100 mber=PC104	-Dai role-seller e=800	identified 🗵 agent-type	identified ority Catalogue-rocatalogue-	requested	ning ification tiation lization	☑ offered ☑ accepted ☑ ontract-complete actual delivery=Del1 actual payment=Pay1 buyer party=Party200 contract date=2020-06-01 cost=12000 currency=Dai planned delivery=PlanDel1 planned payment=PlanPay1
☐ exchanged actual price~4000 actual VAT/MOMS~1000 actual VAT/MOMS=Party100 owner=Party100 serial number=Pc102 serial number=Pc102	reserved	price currency- suggested price suggested VAT/h r/MOMS-1000 typ100 mber=PC104	-Dai role-seller e=800	identified 🗵 agent-type	identified ority Catalogue-rocatalogue-	requested	ning ification tiation lization	☑ offered ☑ accepted ☑ contract-complete actual delivery=Del1 actual payment=Pay1 buyer party=Party200 contract date=2020-06-01 cost=12000 currency=Dai planned delivery=PlanDel1 planned payment=PlanPay1 sale type=wholesale seller party=Party100
☐ exchanged actual price~4000 actual VAT/MOMS~1000 actual VAT/MOMS~1000 owner=Party100 ovserial number=PC102 serial number=PC102	reserved	price currency- suggested price suggested VAT/h r/MOMS-1000 typ100 mber=PC104	-Dai role-seller e=800	identified 🗵 agent-type	identified ority	requested	ning ification tiation lization	☑ offered ☑ accepted ☑ accual delivery=Del1 actual payment=Payl buyer party=Party200 contract date=2020-06-01 cost=12000 currency=Dai planned delivery=PlanDel1 planned payment=PlanPayl sale type=wholesale
reserved cxchanged actual price~4000 actual VAT/MOMS~1000 owner=Party100 serial number=PC102	reserved	price currency- suggested price suggested VAT/h r/MOMS-1000 typ100 mber=PC104	-Dai role-seller e=800	identified 🗵 agent-type	identified ority Catalogue-rocatalogue-	requested	ning ification tiation lization	☑ offered ☑ accepted ☑ contract-complete actual delivery=Del1 actual payment=Pay1 buyer party=Party200 contract date=2020-06-01 cost=12000 currency=Dai planned delivery=PlanDel1 planned payment=PlanPay1 sale type=wholesale seller party=Party100 VAT/MOMS=3000
☐ exchanged □ exchanged □ actual price-4000 actual VAT/MOMS-1000 actual number=PC102 set type=RedSportBike	reserved	ged suggested VAT/h price currency- suggested price suggested VAT/h r/MOMS-1000 py0100 pher=PC104 portBike	-Dai role=seller AIMMS=200	identified agent-type role=Tax Auth	identified ority	requested	ning iffication tiation lization actualization	☑ offered ☑ accepted ☑ accupted ☑ contract-complete actual delivery=Dell actual payment=Payl buyer party=Party200 contract date=2020-06-01 cost=12000 currency=Dai planned delivery=PlanDell planned payment=PlanPayl sale type=wholesale seller party=Party100 VAT/MOMS=3000 wallet balance=0 wallet currency=Dai
☐ exchanged ☐ exchanged ☐ actual price-4000 actual VAT/MOMS~1000 actual number=PC102 set type=RedSportBike ☐ Dell	reserved	ged suggested VAT/h price currency suggested price suggested VAT/h price currency suggested v	role=seller ==800 HOMS=200 PlanPay1	identified agent-type role=Tax Auth	identified ority	requested	ning iffication tiation lization actualization	☑ offered ☑ accepted ☑ contract-complete actual delivery=Del1 actual payment=Pay1 buyer party=Party200 contract date=2020-06-01 cost=12000 currency=Dai planned delivery=PlanDel1 planned payment=PlanPay1 sale type=wholesale seller party=Party100 VAT/MOMS=3000 wallet balance=0 wallet currency=Dai
☐ exchanged actual price-4000 actual VAT/MOMS-1000 actual var/MOMS-1000 serial number=PC102 type=RedSportBike C Del1 Economic Event	reserved	price currencysuggested price suggested Price suggested VAT/N (NOTE) (NO	PlanPay1 Economic Commitment	identified agent-type role=Tax Authority agent-type role=Tax Authority agent a	identified ority	requested	ing iffication tiation lization actualization PC003 mic Resource	☑ offered ☑ accepted ☑ accepted ☑ contract-complete actual delivery=Del1 actual payment=Pay1 buyer party=Party200 contract date=2020-06-01 cost=12000 currency=Dai planned delivery=PlanDel1 planned delivery=PlanDel1 planned payment=PlanPay1 sale type=wholesale seller party=Party100 VAT/MOMS=3000 wallet balance=0 wallet currency=Dai PC004 pnomic Resource
☐ exchanged actual price-4000 actual VAT/MOMS-1000 ac owner=Party100 ov serial number=PC102 type=RedSportBike C Del1 Economic Event ☐ underway	reserved	price currencysuggested price suggested VAT/h price currencysuggested vAT/h pryside variable	PlanPay1 Economic Commitment proposed	© Dail Economic Resource	identified ority	requested	ing iffication tiation lization actualization PC003 mic Resource ilable	☑ offered ☑ accepted ☑ accepted ☑ contract-complete actual delivery=Del1 actual payment=Pay1 buyer party=Party200 contract date=2020-06-01 cost=12000 currency=Dai planned delivery=PlanDel1 planned payment=PlanPay1 sale type=wholesale seller party=Party100 VAT/MOMS=3000 wallet balance=0 wallet currency=Dai PC004 momomic Resource available
□ exchanged actual price-4000 actual VAT/MOMS-1000 serial number=PC102 type=RedSportBike □ Del1 Economic Event □ underway □ event-complete	reserved	price currencysuggested price suggested var/h price currencysuggested var/h pryson on the process of the price suggested var/h pryson on the process of the price suggested var/h pryson on the price currencysuggested var/h pryson on the price currencysuggested var/h price curr	PlanPay1 Economic Commitment proposed specified	© Dail Economic Resource available reserved	identified ority Catalogue-rocatalogue-	requested	ing iffication tiation lization actualization PC003 mic Resource ilable erved Image:	☑ offered ☑ accepted ☑ contract-complete actual delivery=Dell actual payment=Payl buyer party=Party200 contract date=2020-06-01 cost=12000 currency=Dai planned delivery=PlanDell planned payment=PlanPayl sale type=wholesale seller party=Party100 vAT/MOMS=3000 wallet balance=0 wallet currency=Dai PC004 onomic Resource available reserved
☐ exchanged actual price-4000 actual VAT/MOMS-1000 ac owner=Party100 ov serial number=PC102 type=RedSportBike C Del1 Economic Event ☐ underway	reserved	price currencysuggested Price suggested Price suggested VAT/NorManner Price Pr	PlanPay1 Economic Commitment proposed specified commitment-complete	© Dail Economic Resource available reserved exchanged	identified ority Catalogue-rocatalogue-	requested	ing iffication tiation lization actualization PC003 mic Resource ilable erved hanged ### ### ############################	☑ offered ☑ accepted ☑ contract-complete actual delivery=Dell actual payment=Payl buyer party=Party200 contract date=2020-06-01 cost=12000 currency=Dai planned delivery=PlanDell planned payment=PlanPayl sale type=wholesale seller party=Party100 VAT/MOMS=3000 wallet balance=0 wallet currency=Dai PC004 onomic Resource available reserved exchanged
□ exchanged □ exchanged □ actual price-4000 actual VAT/MOMS-1000 actual number=Pc102 actual number=Pc102 type=RedSportBike □ Del1 Economic Event □ underway □ event-complete □ actual date=2020-06-10 □ actual quantity=10 □ event type=DeliveryType □ event type=DeliveryType	reserved	price currency suggested price suggested price suggested var/h suggested var/h price currency suggested var/h price suggested var/h	PlanPay1 Economic Commitment proposed contract=Contract1 planned allocation=Dail	Dail Economic Resource available reserved	identified actual ority actual original ority actual original	requested	PC003 mic Resource ilable erved hanged vAT/MMS=300 pification © © © E actualization © actualization © actualization actualization actualization	☑ offered ☑ accepted ☑ accepted ☑ contract-complete actual delivery=Dell actual payment=Payl buyer party=Party200 contract date=2020-06-01 cost=12000 currency=Dai planned delivery=PlanDell planned payment=PlanPayl sale type=wholesale seller party=Party100 VAT/MOMS=3000 wallet balance=0 wallet currency=Dai PC004 momic Resource available reserved exchanged all price=1200 ual VAT/MOMS=300
© Del1 Economic Event ☐ underway ☐ vexchanged ☐ actual price-4000 actual var/MoMS-1000 actual number=PC102 set type=RedSportBike © Del1 Economic Event ☐ underway ☐ event-complete actual date=2020-06-10 actual quantity=10	reserved	price currency suggested Price suggested Price Suggested VAT/N PryMOD Inher=PC104 portBike PlanDel1 Economic Commitment proposed specified commitment-complete item=GreenSportBike planned date=2020-06-15 planned quantity=10	PlanPay1 Economic Commitment proposed specified commitment-complete contract=Contract1 columned allocation=Dail columned date=2020-06-10	Dail Economic Resource available reserved exchanged from=Party200 fresource type=Dai	identified actual operations actual operations and order accept abandoned actual price=1200 actual operations at all operations actual ope	requested	price=1200 vat/MomS=300 vification lization lization actualization © Eco ilable price=1200 vat/MomS=300 actu actu actu actu actu actu actu actu	☑ offered ☑ accepted ☑ accepted ☑ contract-complete actual delivery=Dell actual payment=Payl buyer party=Party200 contract date=2020-06-01 cost=12000 currency=Dai planned delivery=PlanDell planned payment=PlanPayl sale type=wholesale seller party=Party100 VAT/MOMS=3000 wallet balance=0 wallet currency=Dai PC004 onomic Resource available reserved exchanged ual yat/MoMS=300 ivery=Dell
© Del1 Economic Event Underway Varual date=2020-06-10 actual date=2020-06-10 actual date=2020-08-10 actual da	reserved	price currency suggested price suggested price suggested var/her/moms-1000 typ100 mber=PC104 portBike PlanDel1 Economic Commitment proposed proposed commitment-complete item=GreenSportBike commitment date=2020-06-15 polanned date=2020-06-15 polanned quantity=10 preceiver party=Party200	PlanPay1 Economic Commitment proposed proposed commitment-complete contract=Contractl planned date=2020-06-10 planned var/MoMS=3000	© Dail Economic Resource available reserved mount=15000 resource type=Dai column	identified actual operations actual price=1200 actual price=1200 actual price=1200 actual winer=Party200 errial number=Pc001 actual var/Moms=300 actual var/moms=300 actual var/moms=200 actual var/moms=200 actual var/moms=200 actual var/moms=300 a	requested	pc003 mic Resource ilable price=1200 VAT/MMS=300 vy=Del11 Party200 number=Pc003 sification © © © Eco actu deli Party200 owne series	☑ offered ☑ accepted ☑ accepted ☑ contract-complete actual delivery=Dell actual payment=Payl buyer party=Party200 contract date=2020-06-01 cost=12000 currency=Dai planned delivery=PlanDell planned payment=PlanPayl sale type=wholesale seller party=Party100 VAT/MOMS=3000 wallet balance=0 wallet currency=Dai PC004 momnic Resource available reserved exchanged ual price=1200 ual VAT/MOMS=300 ivery=Del1 er=Party200 ial number=PC004
© Dell Economic Event underway event date=2020-06-10 actual date=2010	reserved	price currency suggested price suggested price suggested var/her/moms-1000 typ100 mber=PC104 portBike PlanDel1 Economic Commitment proposed proposed commitment-complete item=GreenSportBike commitment date=2020-06-15 polanned date=2020-06-15 polanned quantity=10 preceiver party=Party200	PlanPay1 Economic Commitment proposed commitment-complete contract=Contract1 planned allocation=Dai1 planned date=2020-06-10 planned receiver amount=12000	Dail Economic Resource Available Areserved Evaluation From=Party200 From	identified actual operations actual price=1200 actual price=1200 actual price=1200 actual winer=Party200 errial number=Pc001 actual var/Moms=300 actual var/moms=300 actual var/moms=200 actual var/moms=200 actual var/moms=200 actual var/moms=300 a	requested	pc003 mic Resource ilable price=1200 VAT/MMS=300 vy=Del11 Party200 number=Pc003 sification © © © Eco actu deli Party200 owne series	☑ offered ☑ accepted ☑ accepted ☑ accual delivery=Del1 actual payment=Pay1 buyer party=Party200 contract date=2020-06-01 cost=12000 currency=Dai planned delivery=PlanDel1 planned payment=PlanPay1 sale type=wholesale seller party=Party100 VAT/MOMS=3000 wallet balance=0 wallet currency=Dai PC004 onomic Resource available reserved exchanged ual price=1200 ual VAT/MOMS=300 ivery=Del1 er=Party200

© <u>PC005</u>	© <u>PC006</u>	© <u>PC007</u>	© <u>PC008</u>	© <u>PC009</u>	© <u>PC010</u>
Economic Resource :	Economic Resource				
🗷 available	🗵 available				
reserved :	▼ reserved	🗷 reserved			
exchanged	exchanged				
actual price=1200					
actual VAT/MOMS=300					
delivery=Del1	delivery=Del1	delivery=Del1	delivery=Del1	delivery=Del1	delivery=Del1
owner=Party200	owner=Party200	owner=Party200	owner=Party200	owner=Party200	owner=Party200
serial number=PC005	serial number=PC006	serial number=PC007	serial number=PC008	serial number=PC009	serial number=PC010
type=GreenSportBike	type=GreenSportBike	type=GreenSportBike	type=GreenSportBike	type=GreenSportBike	type=GreenSportBike

Business Event #22: Buyer: Okay, here is the payment

Stimuli: Track business process descriptions (remittance-advice); Payment (initiate-event); Payment to be made (reserve); Payment added to contract wallet (modify-contract); Payment removed from buyer's wallet (modify-agent)

From: buyer, To: seller; Document: Remittance Advice;

Process2	Process2	Cor	ntract2	<u>Pay2</u>	<u>PlanDel2</u>	PlanPay2	Buyer	®	<u>Dai</u>
Business Process Detail	Business Process Over	rview Econo	mic Contract	Economic Event	Economic Commitment	Economic Commitme	ent Economic Age	nt Type Econom	ic Resource Type
☐ catalogue-requested	□ planning	offered		✓ underway	▼ proposed	▼ proposed	agent-type-id age	lentified 🗷 resourc	e-type-identified
☐ catalogue-received	identification	accepte	ed	□ event-complete		specified	role=buyer	exchange U	
quotation-requested	negotiation	☐ contrac	ct-complete	allocation sf~Dai2	☐ commitment-complete	□ commitment-comple	ete	proper nam resource t	e=Dai ype=cryptocurrenc
quotation-received	actualization		y=Party200	contract~Contract2 event type~PaymentType	item=RedSportBike	contract=Contract2			1717
☑ order-received	□ post-actualization	contract c		payment date~2020-07-10	planned date=2020-07-15 planned quantity=5	planned allocation=Dai2 planned date=2020-07-10			
counter-order-received	-		elivery=PlanDelZ	planned payment~PlanPay2 receiver amount~4000	receiver party=Party200	planned receiver amount			
order-accepted		planned pa sale type=	ayment=PlanPay2 =wholesale	VAT/MOMS~1000	sender party=Party100	planned VAT/MOMS=1000			
 paid	i 	seller par	rty=Party100		-				
despatched		VAT/MOMS=1 wallet bal							
☐ goods-received	Í	wallet cur							
☐ abandoned	Í ■								
□ completed	İ								
	,								
	eliveryType ®	GreenSportB		Party100 ®	Party200 ®	Party300 ®	PaymentType ®	PC011 ®	PC100
	71	Economic Resource		Economic Agent	Economic Agent		Economic Event Type	Economic Resource	Economic Reso
available 🗷 eve	vent-type-identified ∑	resource-type-id	entified 🗷 part	icipating	participating		event-type-identified	available	<u>available</u>
		rice currency=Dai	balance currence			alance=3000 re-	source type=dai	□ reserved	reserved
□ exchanged		aggested price=120 aggested VAT/MOMS=		y=Dai .ll's Bikes Manufacturing		urrency=Dai ame=Danish Tax Agency		□ exchanged	□ exchanged
amount=5000 From=Party200			type=Se			ype=TaxAuthority		owner=Party100 serial number=PC011	actual price=400 actual VAT/MOMS=
resource type=Dai			wallet=	-Ox4cFa2eDE	wallet=0xdF86f112 wallet balance~80000	rallet==0xdA9f23F4		type=GreenSportBike	owner=Party100
							!		serial number=PC
									type=RedSportBik
PC101 ®	PC102 ®	PC103 ®	PC104	RedSportBi	.ke ® Seller	® TaxAuthor	ity ® © Proce	ess1 FC	Process1
		nomic Resource	Economic Reso						ess Process Overvie
		vailable	available	resource-type-id			·		
		eserved	reserved	price currency=Dai	role=seller	role=Tax Authori	, ,	1 , 1	ntification
i leserveul i ville	SSCIVEUI LA III	JSCI VCU	△ I esei veu			TOIC-TUX MUCHOIT	: 🖾 catalogue-i		
			- eychanged	suggested price=800		•	W quotation r	adulacted * V neo	
□ exchanged □ ex	exchanged	xchanged	□ exchanged	suggested VAT/MOMS=			🗷 quotation-r	1 ,	
exchanged exchanged actual price=4000 actual	exchanged		exchanged actual price=400 actual VAT/MOMS=	suggested VAT/MOMS=				eceived <u>acti</u>	ıalization
l exchanged	exchanged alal price=4000 alal VAT/MOMS=1000 actual cr=Party100 actual council.	xchanged al price=4000 al VAT/MOMS=1000 r=Party100	actual price=400 actual VAT/MOMS= owner=Party100	suggested VAT/MOMS=				received actived pos	
exchanged	exchanged call price=4000 actual VAT/MOMS=1000 cr=Party100 owner all number=PC102 serial	xchanged al price=4000 al VAT/MOMS=1000	actual price=400 actual VAT/MOMS=	suggested VAT/MOMS= -1000			✓ quotation-r ✓ order-recei ☐ counter-ord	received actual xed pos	ıalization
ctual price=4000 actual VAT/MOMS=1000 actual vary100 erial number=PC101 seria	exchanged call price=4000 actual VAT/MOMS=1000 cr=Party100 owner all number=PC102 serial	xchanged al price=4000 al VAT/MOMS=1000 r=Party100 al number=PC103	actual price=400 actual VAT/MOMS= owner=Party100 serial number=P0	suggested VAT/MOMS= -1000			✓ quotation-r ✓ order-recei ☐ counter-ord ✓ order-accep	received actual xed pos	ıalization
ctual price=4000 actual VAT/MOMS=1000 actual vary100 erial number=PC101 seria	exchanged call price=4000 actual VAT/MOMS=1000 cr=Party100 owner all number=PC102 serial	xchanged al price=4000 al VAT/MOMS=1000 r=Party100 al number=PC103	actual price=400 actual VAT/MOMS= owner=Party100 serial number=P0	suggested VAT/MOMS= -1000			 ☑ quotation-r ☑ order-recei □ counter-ord ☑ order-accep ☑ paid 	received actived pred	ıalization
ctual price=4000 actual VAT/MOMS=1000 actual vary100 erial number=PC101 seria	exchanged call price=4000 actual VAT/MOMS=1000 cr=Party100 owner all number=PC102 serial	xchanged al price=4000 al VAT/MOMS=1000 r=Party100 al number=PC103	actual price=400 actual VAT/MOMS= owner=Party100 serial number=P0	suggested VAT/MOMS= -1000			 ☑ quotation-r ☑ order-recei □ counter-ord ☑ order-accep ☑ paid ☑ despatched 	received	ıalization
exchanged ctual price=4000 actual vat/MomS=1000 actual vat/MomS=000 owner=Party100 erial number=PC101 seria	exchanged call price=4000 actual VAT/MOMS=1000 cr=Party100 owner all number=PC102 serial	xchanged al price=4000 al VAT/MOMS=1000 r=Party100 al number=PC103	actual price=400 actual VAT/MOMS= owner=Party100 serial number=P0	suggested VAT/MOMS= -1000				received	ıalization
exchanged	exchanged call price=4000 actual VAT/MOMS=1000 cr=Party100 owner all number=PC102 serial	xchanged al price=4000 al VAT/MOMS=1000 r=Party100 al number=PC103	actual price=400 actual VAT/MOMS= owner=Party100 serial number=P0	suggested VAT/MOMS= -1000			 ☑ quotation-r ☑ order-recei □ counter-ord ☑ order-accep ☑ paid ☑ despatched 	received	ıalization

Contract1 Economic Contract fored contract-complete actual delivery=Del1 actual payment=Pay1 buyer party=Party200 contract date=2020-06-01 cost=12000	© Del1 Economic Event Underway event-complete actual date=2020-06-10 actual quantity=10 event type=DeliveryType item=GreenSportBike planned delivery=PlanDel1 receiver party=Party200 sender party=Party100	event-complete allocation sf=Dail contract=Contract1 event type=PaymentType payment date=2020-06-10 planned payment=PlanPayl	☑ specified ☑ commitment-complete item=GreenSportBike planned date=2020-06-15 planned quantity=10 receiver party=Party200	contract=Contract1 planned allocation=Dai1 planned date=2020-06-10 planned receiver amount=12000 planned VAT/MOMS=3000	exchanged amount=15000 from=Party200 resource type=Dai tol-amount=12000 tol-party=Party100	available reserved exchanged actual price=1200 actual VAT/MOMS=300 delivery=Dell owner=Party200 serial number=PC001	serial number=PC002	available reserved exchanged actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC003
		: receiver amount=12000		planned VAT/MOMS=3000	tol-party=Party100	serial number=PC001	serial number=PC002	
planned delivery=PlanDel1 planned payment=PlanPay1					to2-party=Party300			£

planned payment=Plan sale type=wholesale seller party=Party10 VAT/MOMS=3000 wallet balance=0 wallet currency=Dai						
© <u>PC004</u>	© <u>PC005</u>	© <u>PC006</u>	© <u>PC007</u>	© <u>PC008</u>	© <u>PC009</u>	© <u>PC010</u>
Economic Resource	Economic Resource	Economic Resource	Economic Resource	Economic Resource	Economic Resource	Economic Resource
🗷 available	🗷 available	🗷 available	🗷 available	🗷 available	🗷 available	■ available ■ ava
🗷 reserved	🗷 reserved		🗵 reserved	🗷 reserved	🗷 reserved	☑ reserved
exchanged			exchanged			
actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC004 type=GreenSportBike	actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC005 type=GreenSportBike	actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC006 type=GreenSportBike	actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC007 type=GreenSportBike	actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC008 type=GreenSportBike	actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC009 type=GreenSportBike	actual price=1200 actual VAT/MOMS=300 delivery=Del1 owner=Party200 serial number=PC010 type=GreenSportBike