

### Choreography model

ID level 1	p of XOR	ID level 2	p of XOR	ID level 3	initiator	receiver	activity	time (hours)	human resource (in persons)	human resource (EUR/hour)	technical resources costs total (EUR)	reliability	total costs (EUR)	avg time	avg costs	avg reliability		
1	0,15 0,85	U1 D1 D2 D3 D4 D5			assembler	manufacturer	ordering required products	4,00	2	25	20	100,00%	220,00	4	220,00	100,00%		
					manufacturer	assembler	confirming order	1,00	1	25	0	99,00%	25,25					
					manufacturer	supplier	clarification of feasible projected date and required components	2,00	2	25	10	95,00%	115,79					
					manufacturer	assembler	confirming order with updated delivery dates	1,00	2	25	0	99,00%	50,51					
					manufacturer	supplier	placing order for materials	4,00	2	25	20	100,00%	220,00					
	2					manufacturer	supplier	clarifying payment details	2,00	2	30	10	95,00%	136,84	8,65	499,45	90,80%	
						manufacturer	supplier	making payment	1,00	2	30	0	100,00%	60,00				
						assembler	manufacturer	clarifying payment details	2,00	2	30	10	100,00%	130,00				
	3					assembler	manufacturer	making payment	1,00	2	30	0	100,00%	60,00	1	60,00	100,00%	
	4	0,82	D1 D2	0,05	U1	manufacturer	supplier	coordination of the next just-in-time material batch shipment	2,00	2	20	10	99,00%	90,91	25,338	1 541,29	98,99%	0,9997
supplier						manufacturer	shipment of the next material batch	8,00	2	20	200	99,80%	521,04					
manufacturer						supplier	replacement of defect parts in the shipment	6,00	2	20	50	99,40%	291,75					
manufacturer						assembler	coordination of the next just-in-time CPU batch shipment	2,00	2	20	10	99,60%	90,36					
manufacturer						assembler	shipment of the next CPU batch	8,00	2	20	200	99,50%	522,61					
5	0,10	U1 U2			assembler	manufacturer	recycling of unused CPUs	6,00	2	20	50	99,00%	292,93	1,2	58,59	99,80%		
					manufacturer	supplier	recycling of unused materials	6,00	2	20	50	99,00%	292,93					
													<b>average values -&gt;</b>			<b>72,188</b>	<b>4 348,25</b>	<b>85,56%</b>

U = up (upper path)  
D = down (bottom path)

Average number of batches/order 3



