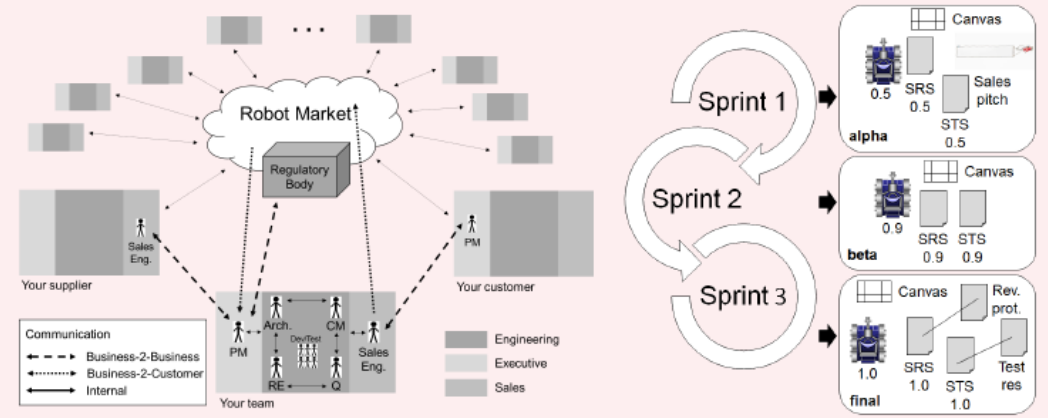


Making Programming Lab Sessions Mandatory

– On Student Work Distribution in a Gamified Project Course on Market-Driven Software Engineering

- Unfair work distribution is common in group work
- Goal: Help novice programmers
- Intervention: Turn computer exercises into mandatory labs
- Did it work? Plenty of data to share!



Questionnaire

Year	Lab1	Ex1	Lab2	Ex2	Lab3	Ex3	Lab4	Ex4	RE	Bus.	IDE	Prog.	Test	CM	Team
2018	3(1.75)	3(2)	3(1)	3(1)	2(2.25)	4(1)	3(2)	4(2)	3(1)	3(1)	3(1.5)	4(2)	3(1)	3(1)	4(2)
ICT	3(2)	3(1)	3(2)	3(1)	2(2)	4(1)	3(1.5)	4(1.5)	3(1)	3(1)	3(1)	4(2)	3(0.5)	3(1)	4(1)
MGM	3(1)	3(1)	3(1)	3(0.5)	4(1)	3(1)	4(1.5)	4(2)	4(1.5)	4(2)	3(2)	4(1.75)	4(0.25)	3(0)	4(1.25)
2019	4(1)	4(1)	4(2)	3(2)	3(2)	4(2)	4(1)	3(3)	4(0.5)	4(2)	4(2)	4(2)	4(1)	3(2)	4(3)
ICT	4(1.25)	3(1.25)	3.5(2)	3(1)	3(2)	3(3)	3(1.25)	2(2.5)	4(1)	3(1.5)	4(1)	3(1)	4(2)	3(2.5)	2(2)
MGM	4(1)	4(1)	4(1)	3.5(3)	3(2.25)	4(1.5)	4(2)	4(2)	4(1)	5(1)	4(2)	5(1.25)	4(2)	3(2)	5(0)

Gray cell: ++
Black cell: --

