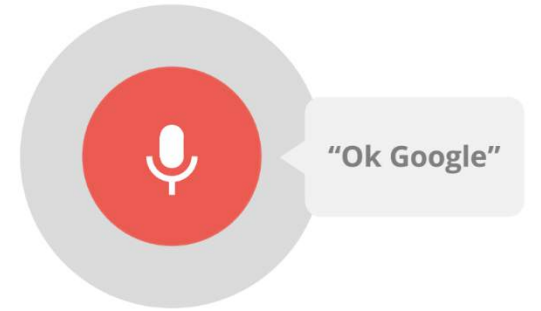


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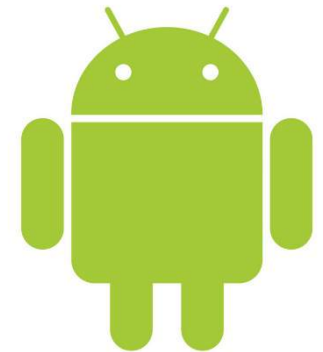
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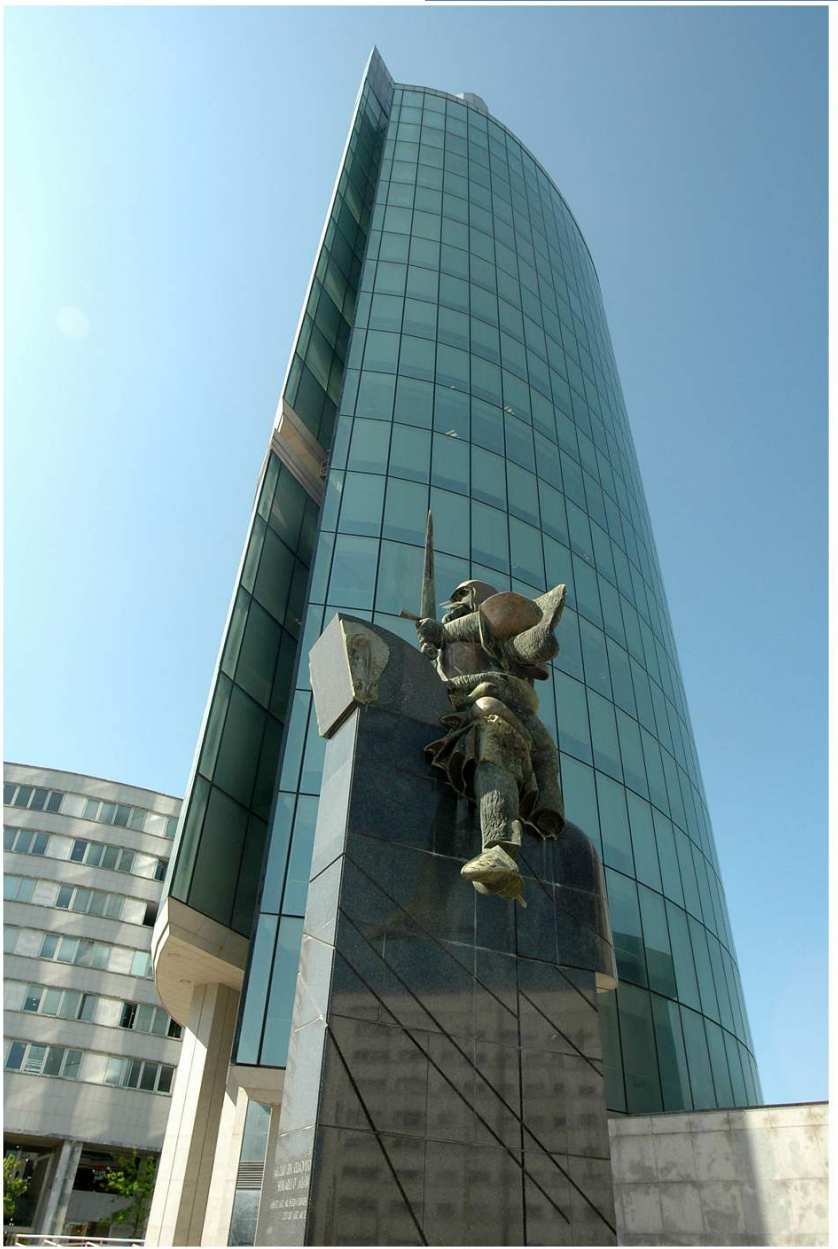
Rui Barbosa Martins

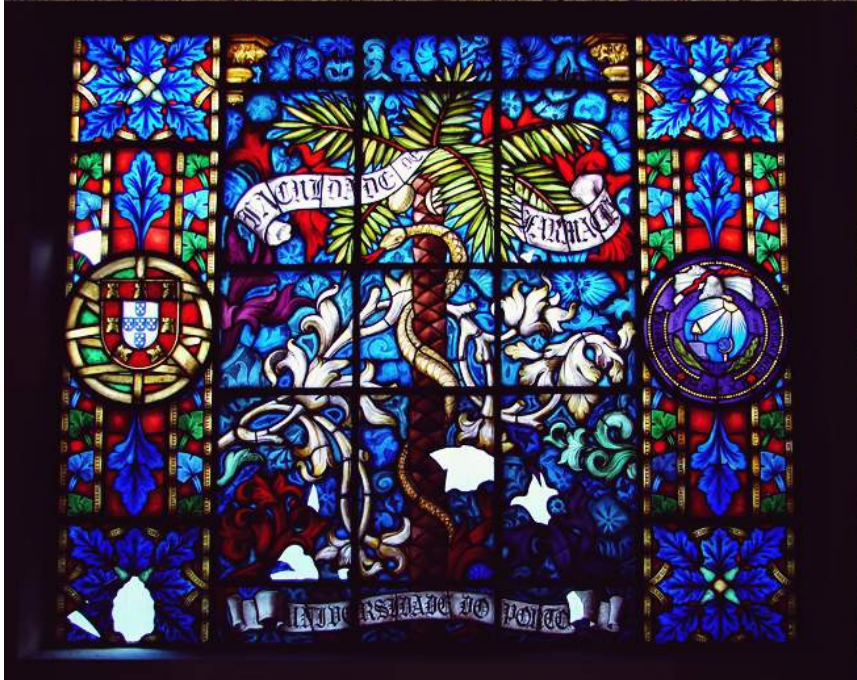


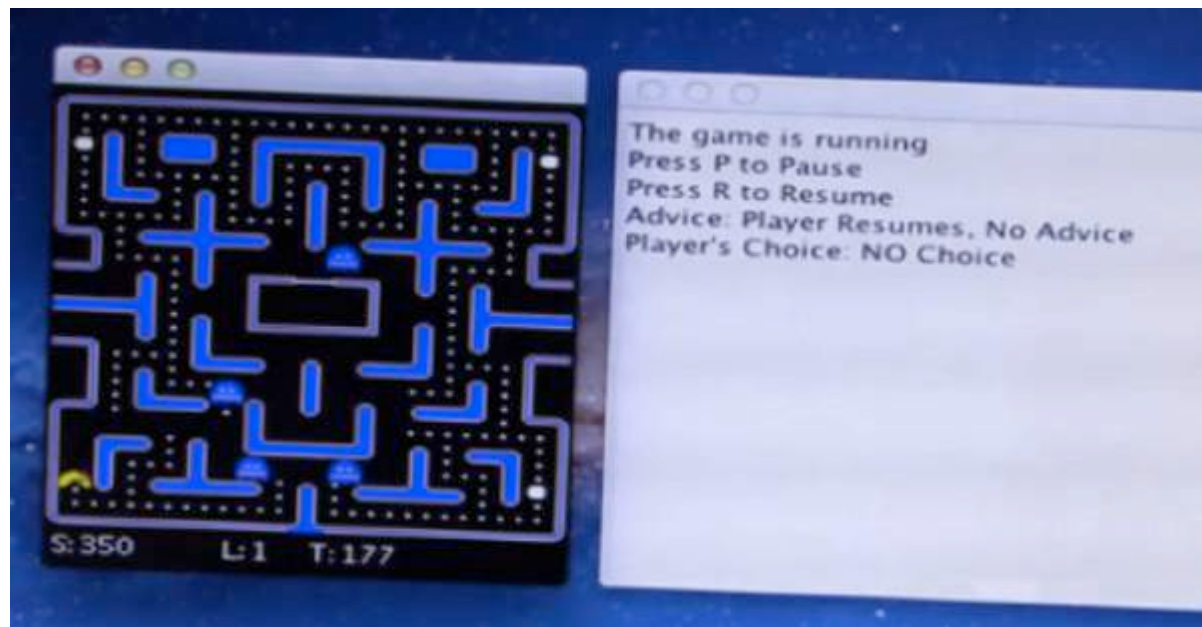
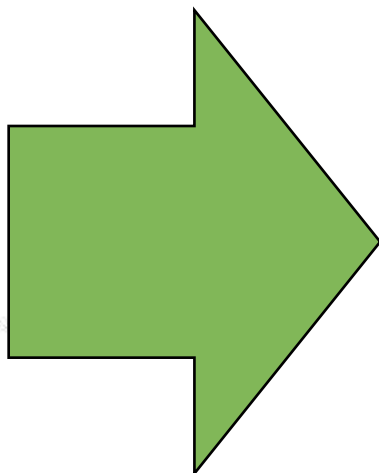
Porto, 7 de Novembro de 2014

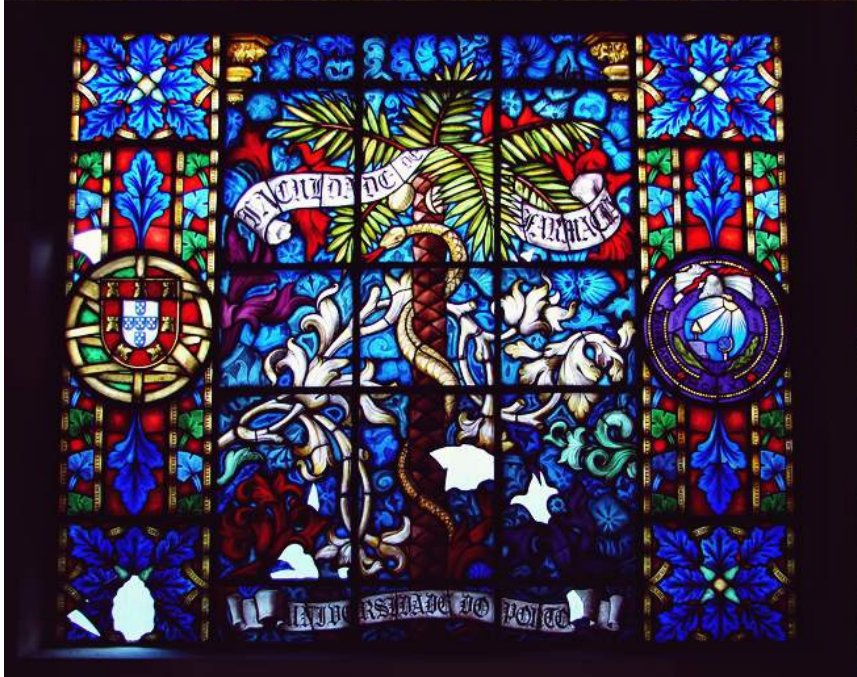
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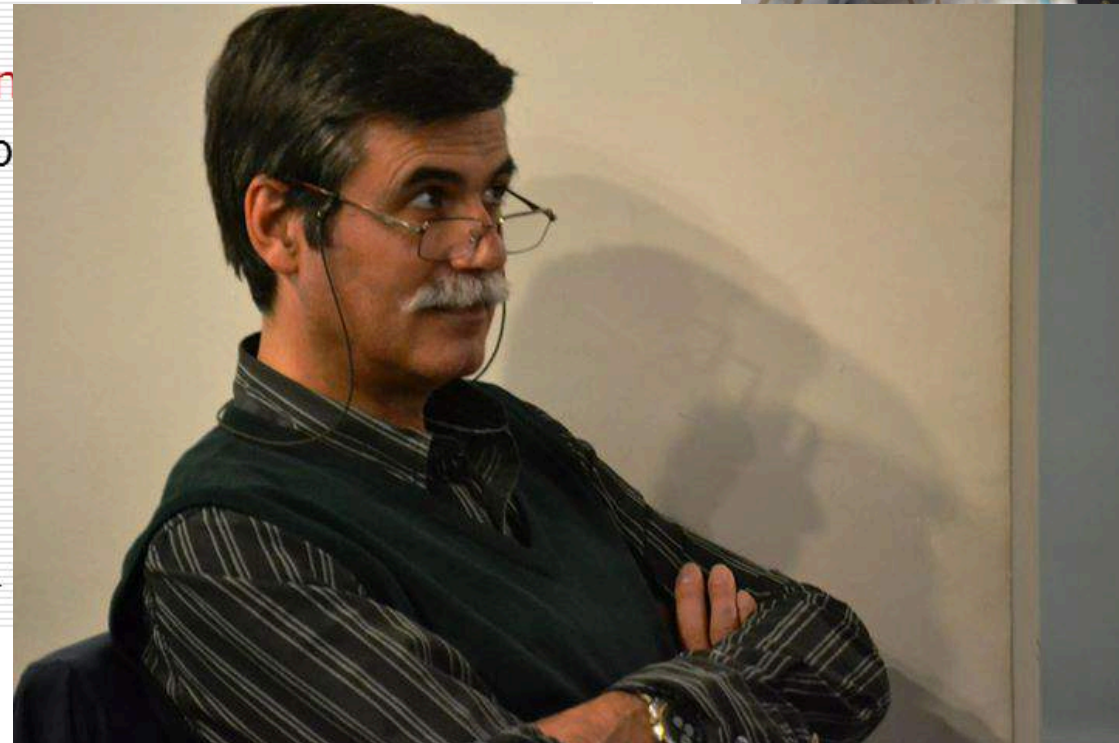




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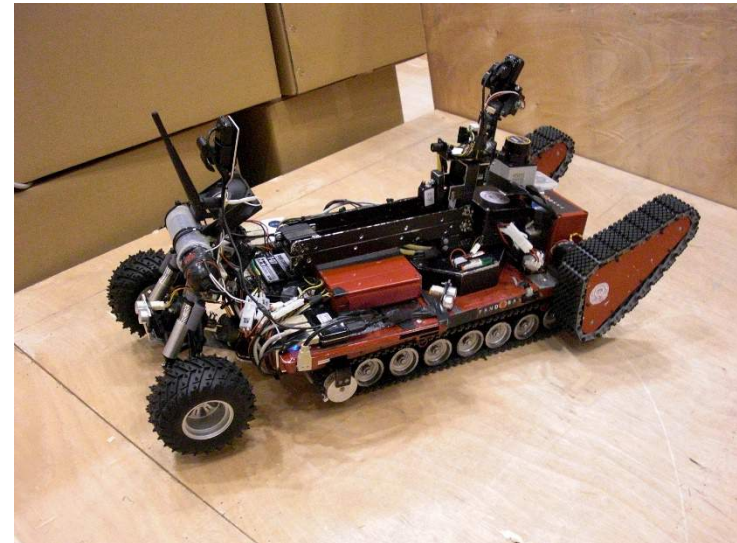
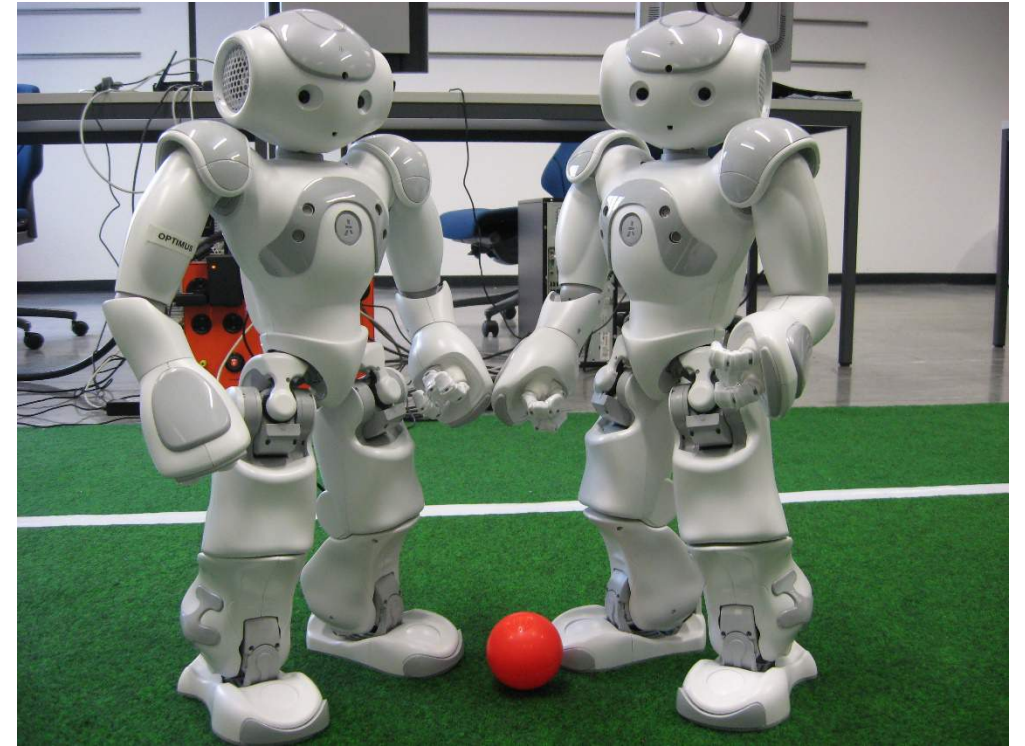
- ✓ Nasceu de um **ramo** do curso de **Electrotecnia**
- ✓ Veio preencher uma **área importante do mercado de trabalho** num campo necessário hoje em dia
- ✓ Numerus Clausus: **90**

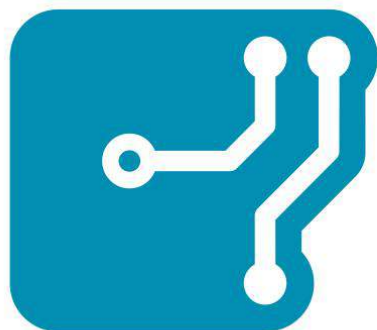




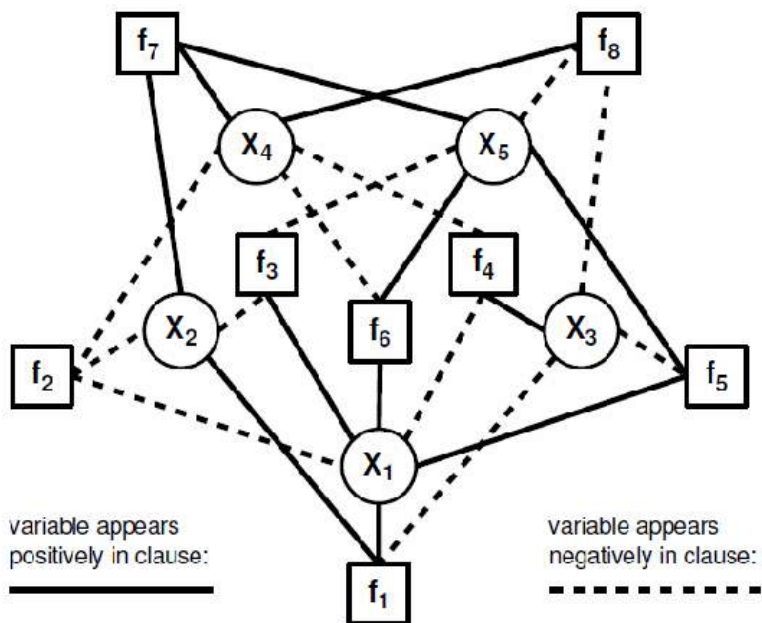
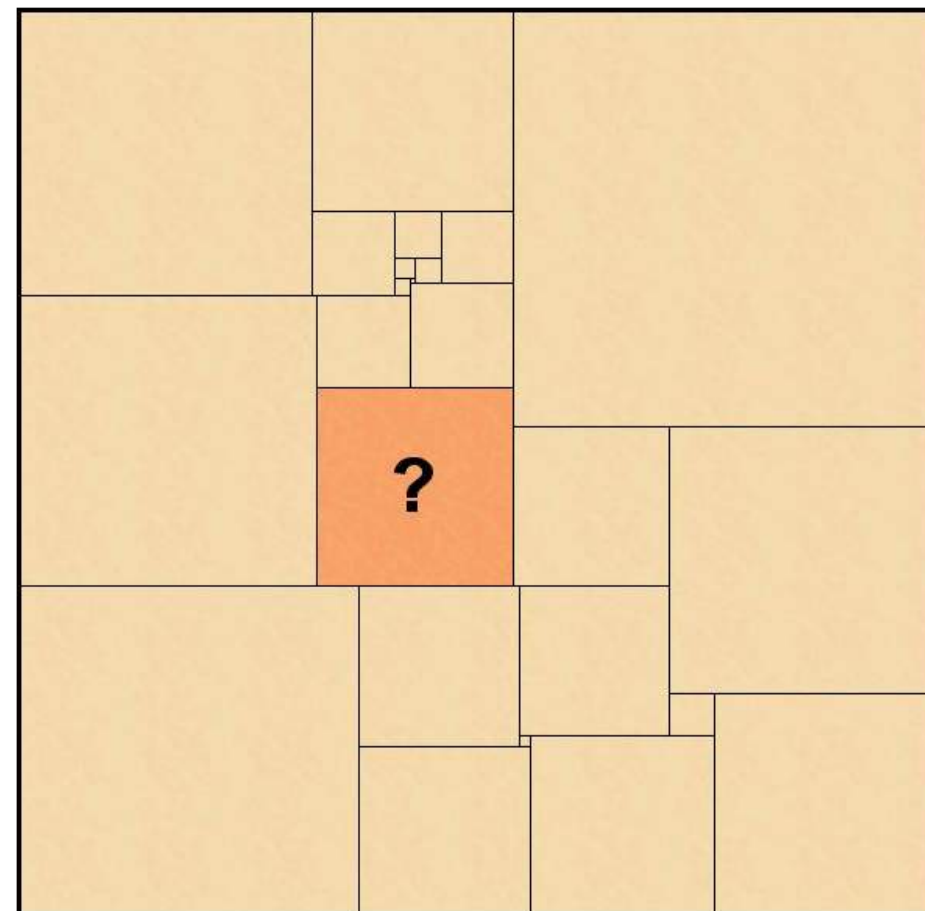
IEEE

PORTUGAL SECTION





The square below contains 24 smaller squares, each with a different integral size. Determine the length of the shaded square



$$\Phi = C_1 \wedge \dots \wedge C_8$$

- $C_1 = (x_1 \vee x_2 \vee \neg x_3)$
- $C_2 = (\neg x_1 \vee \neg x_2 \vee \neg x_4)$
- $C_3 = (x_1 \vee \neg x_2 \vee \neg x_5)$
- $C_4 = (\neg x_1 \vee x_3 \vee \neg x_4)$
- $C_5 = (x_1 \vee \neg x_3 \vee x_5)$
- $C_6 = (x_1 \vee \neg x_4 \vee x_5)$
- $C_7 = (x_2 \vee x_4 \vee x_5)$
- $C_8 = (\neg x_3 \vee x_4 \vee \neg x_5)$

$$n = 5, m = 8, \alpha = 1.6$$



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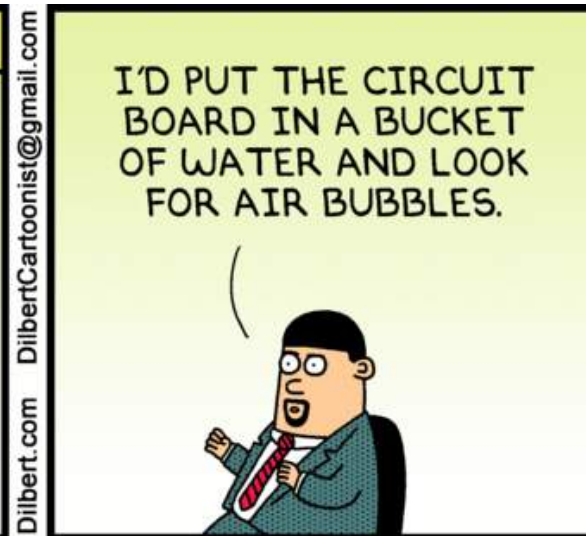
#	Country	Team	Problems									Solved Points				
			A	B	C	D	E	F	G	H	I					
1	ETH	Jess Haza	0:12:25 (1)	2:22:31 (0)				3:53:26 (0)	0:41:06 (2)	0:29:40 (1)	2:12:31 (0)	1:09:39 (0)	7	12:21:16		
2	EPFL	Andrii Ghiga	0:10:42 (0)	2:51:24 (0)			4:48:48 (0)	1:35:39 (0)	0:35:39 (0)	2:22:24 (0)	1:26:45 (1)		7	14:11:21		
3	ETH	Nikola Djalic	0:09:12 (1)	4:30:58 (2)	2:41:14 (0)			0:35:18 (0)	0:41:49 (0)	2:17:28 (2)	1:37:51 (1)		7	14:33:40		
4	ETH	Vladimir Serjemenko	0:08:08 (0)	2:27:28 (1)				---	0:28:11 (0)	0:34:56 (0)	1:15:40 (0)	1:51:31 (0)	6	7:03:52		
5	ETH	Ralf Seebach	0:13:58 (0)	2:37:10 (0)	---	(3)		1:00:41 (0)	0:22:53 (0)	1:30:46 (0)	2:08:18 (0)		6	7:53:46		
8	EPFL	Cheng Zhong	0:16:30 (0)	3:27:11 (0)				0:53:50 (0)	0:38:30 (0)	1:53:39 (0)	2:48:08 (2)		6	10:38:06		
7	ETH	Dawid Graf	0:15:36 (1)	2:13:41 (0)				1:06:52 (1)	0:34:27 (0)	3:56:45 (0)	4:28:52 (1)		6	13:36:13		
8	EPFL	Tian Lu Hong	0:26:24 (5)	1:55:04 (1)				1:15:12 (1)	0:44:31 (2)	4:56:49 (0)	4:19:40 (5)		6	18:17:40		
9	EPFL	Talal Douzi	0:29:08 (2)	4:34:08 (0)				1:04:58 (2)	0:39:54 (0)	3:15:42 (0)	4:44:22 (7)		6	18:28:12		
10	ETH	Hermann Skalic	0:33:37 (2)	1:25:01 (0)				4:32:20 (5)	0:47:28 (1)	3:38:46 (1)	2:31:17 (0)		6	19:28:29		
11	Google	Mohamad Abuhamra	0:13:21 (0)	0:54:09 (0)	---	(1)		0:40:31 (0)	0:29:51 (0)		2:26:12 (2)	---	(1)	5	5:24:04	
12	ETH	Akaki Mangasidhi	0:19:11 (0)					1:03:49 (2)	0:28:25 (0)		2:25:28 (3)	1:35:57 (0)		5	7:32:50	
13	ETH	Sandra Faur	0:13:04 (0)					0:57:36 (0)	0:27:40 (0)	2:09:05 (1)	3:13:28 (2)			5	8:00:53	
14	search	Chaitan Heibing	0:16:16 (0)	1:43:38 (0)				0:52:58 (0)	0:31:00 (1)	4:46:02 (0)	---	(1)	---	(2)	5	8:29:55
15	ETH	Galit Sham	0:17:54 (1)	---	(1)			0:44:28 (0)	0:48:42 (1)	3:29:17 (0)	2:34:05 (0)			5	8:32:26	
16	EPFL	Antoine Demirez	0:17:52 (1)	---	(1)			0:57:43 (0)	0:38:02 (1)	1:35:10 (1)	4:13:11 (7)			5	10:59:58	
17	EPFL	Johannes Vahrenw	0:22:50 (0)	4:08:43 (3)				2:34:31 (0)	0:44:04 (0)		3:39:53 (2)			5	13:10:01	
18	EPFL	Ahmad Moran	0:23:00 (1)	4:50:02 (0)				3:57:59 (0)	0:39:11 (0)	3:19:27 (0)				5	13:29:36	
19	EPFL	Piotr Pawel Patzkiewicz	0:11:30 (0)	3:18:23 (1)				1:03:42 (0)	0:21:56 (0)		---	(13)		4	5:15:31	
20	EPFL	Ruben Steag	0:28:57 (1)					1:18:34 (1)	0:13:57 (0)	2:51:18 (1)	---	(2)		4	5:53:46	
21	ETH	Adnan Raza	0:13:43 (1)	1:52:05 (1)				4:03:37 (0)	0:29:59 (0)					4	7:19:24	
22	EPFL	Olivier Gaudin	0:32:28 (3)	---	(17)			1:38:20 (2)	0:48:12 (0)	---	(2)	3:34:04 (0)		4	8:13:04	
23	EPFL	Samuel Guiter	0:43:08 (2)	4:08:27 (1)				1:25:42 (0)	1:01:07 (1)					4	8:38:24	
24	ETH	Timon Sell	0:22:27 (3)	---	(1)			2:21:03 (1)	0:44:30 (2)		3:17:17 (3)			4	9:45:17	
25	ETH	Stephan Kuhn	0:14:34 (0)					0:46:49 (2)	0:19:59 (0)	---	(1)	---	(2)	3	2:03:22	
26	EPFL	Arthur Ouelo	0:28:22 (2)	---	(2)			1:06:46 (0)	0:35:46 (0)					3	2:50:54	
27	ETH	Josef Jaeger	0:39:53 (1)					1:38:45 (3)	0:17:05 (2)		---	(3)		3	4:35:43	
28	ETH	Demirci Boen	0:21:56 (1)	---	(2)				1:03:26 (1)	3:12:34 (0)				3	5:17:56	
29	UN	Colin Engelert	0:30:22 (1)					1:58:51 (6)	0:38:33 (0)		---	(4)		3	5:27:46	
30	Luminy	Engineering Maro Zimmermann	0:45:18 (5)	---	(9)			1:24:19 (1)	1:48:08 (1)					3	8:17:45	
31	ETH	Guo Jiyang	0:32:24 (2)	---	(2)			2:06:21 (6)	0:44:50 (1)		---	(5)		3	6:23:35	
32	ETH	Lukas Marz	0:19:12 (1)						0:29:03 (1)		4:49:29 (3)			3	7:17:44	
33	ETH	Florian Schudagger	4:33:13 (4)					1:28:52 (0)	1:01:38 (0)					3	8:23:43	
34	EPFL	Itachi Igashiro	2:50:35 (3)					---	(1)	1:28:33 (0)		2:32:37 (2)		3	8:31:45	
35	EPFL	Benoit Lamerle	0:26:09 (2)					---	(10)	0:45:00 (2)				2	2:31:09	
36	ETH	Hannes Kiesen	0:45:23 (0)							2:46:07 (0)				2	3:31:30	
37	EPFL	Dorian Hoffmann	0:33:25 (0)	2:39:46 (3)	---	(1)								2	4:13:11	
38	EPFL	Ewa Wolska Angot	2:46:51 (9)	---	(3)						---	(5)		1	5:46:51	



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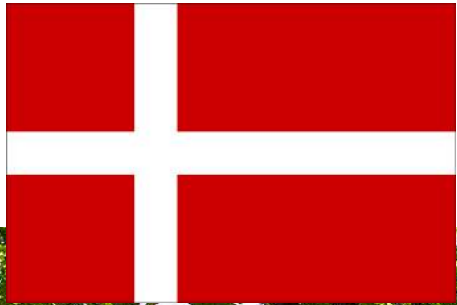
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AUTHOR OF *BIG SECRETS*

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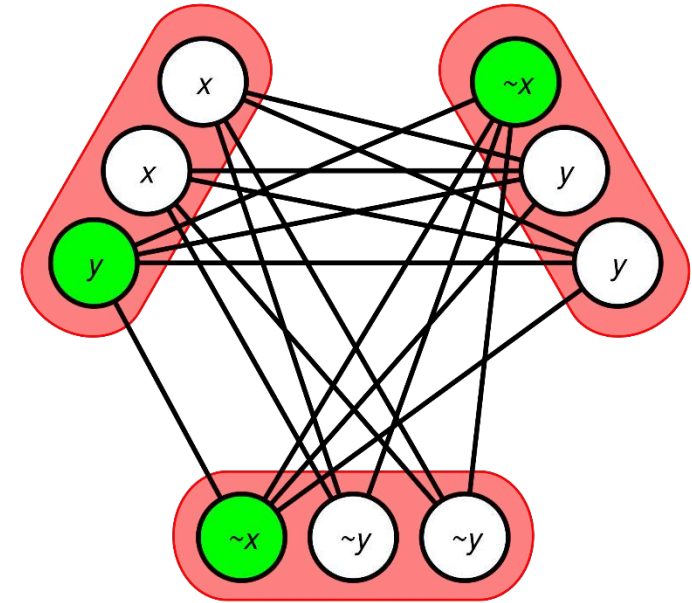
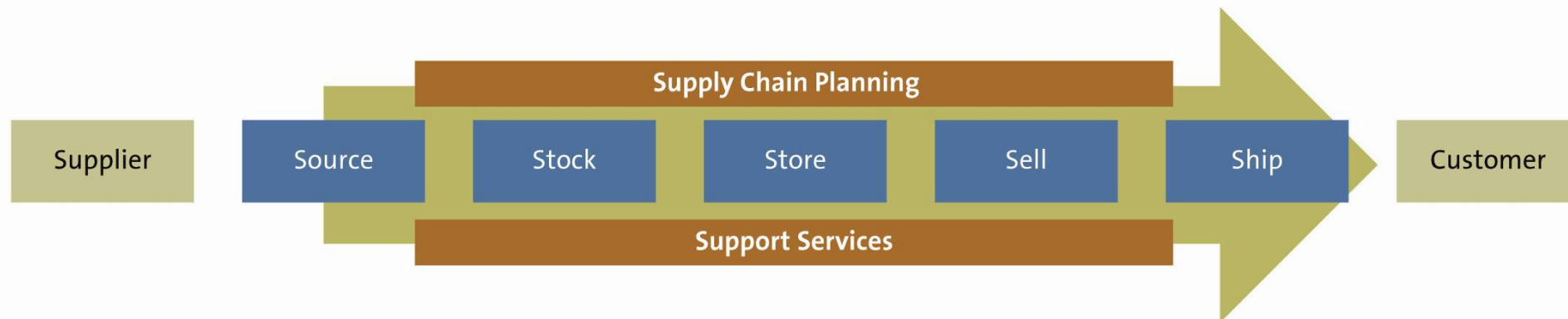


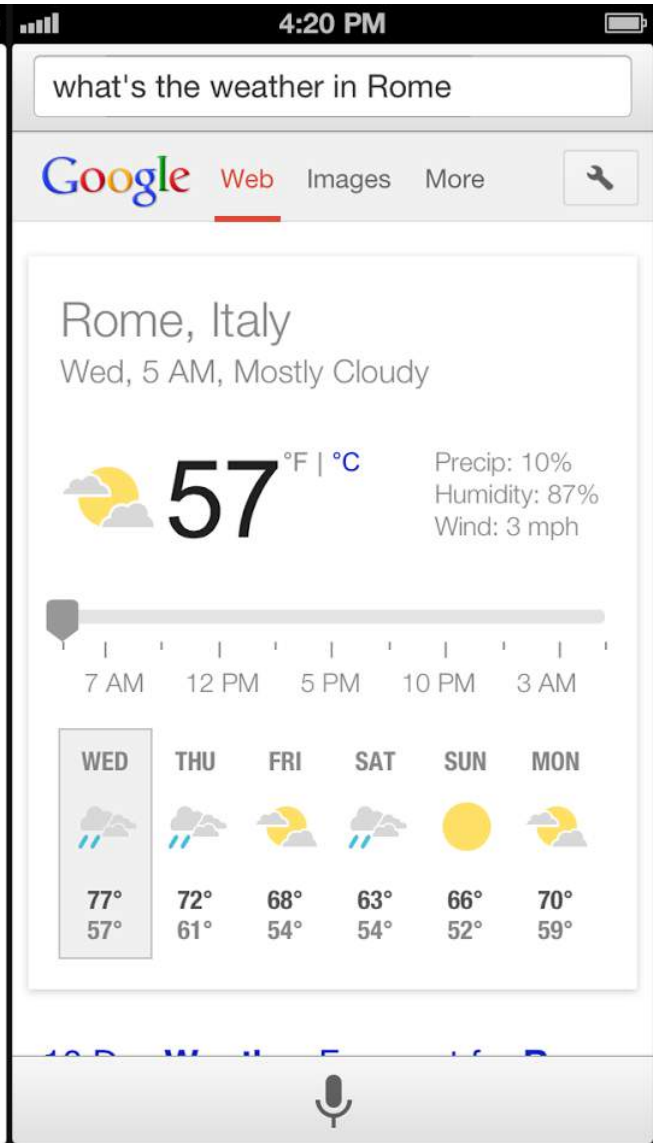
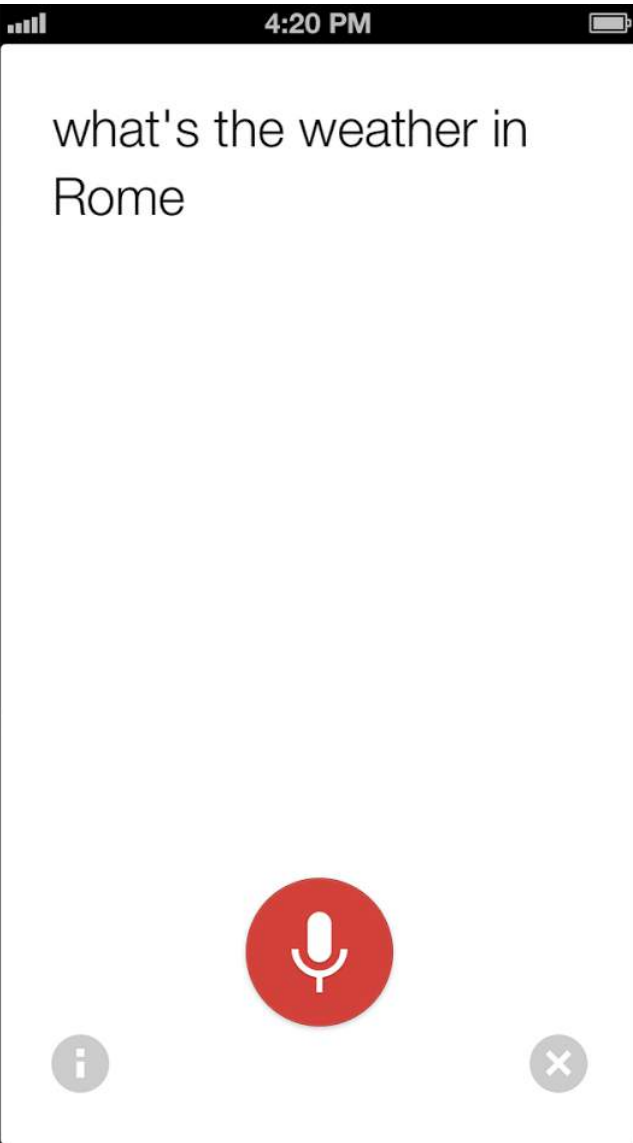
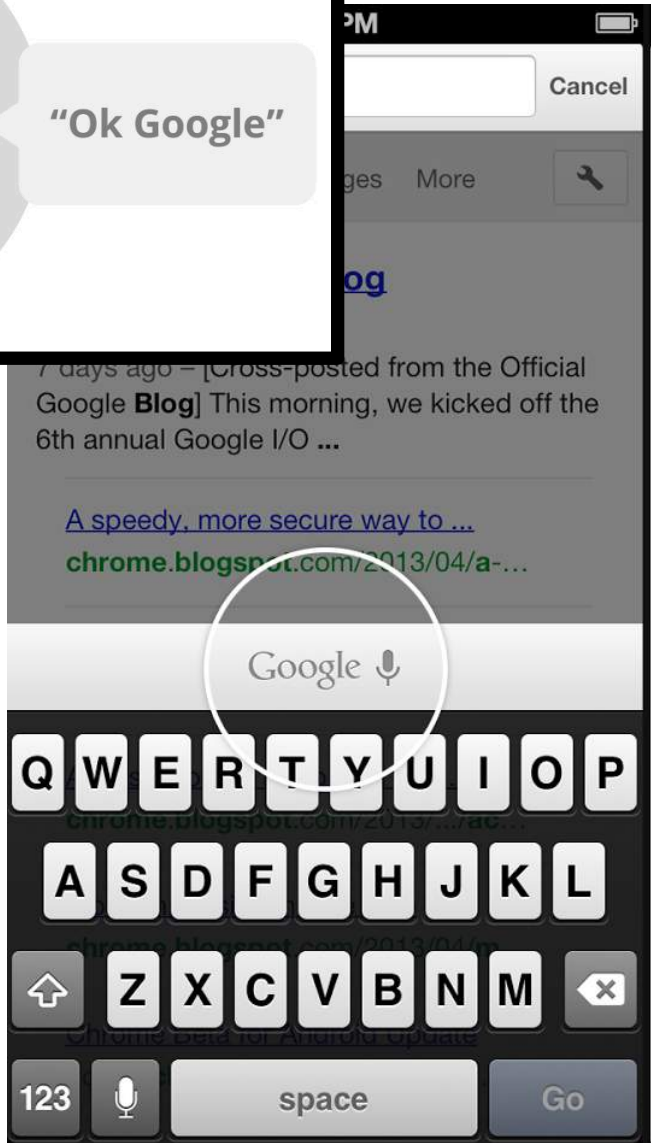
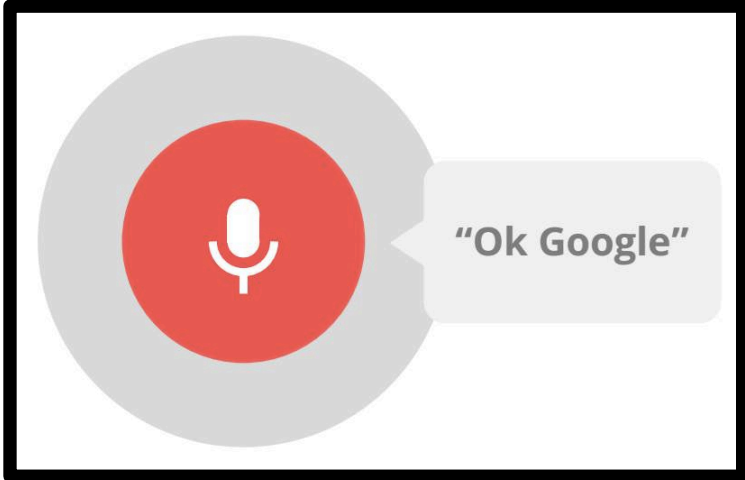
Exhibit 1. 7S process group: focus on *supply chain planning* and *support services*.



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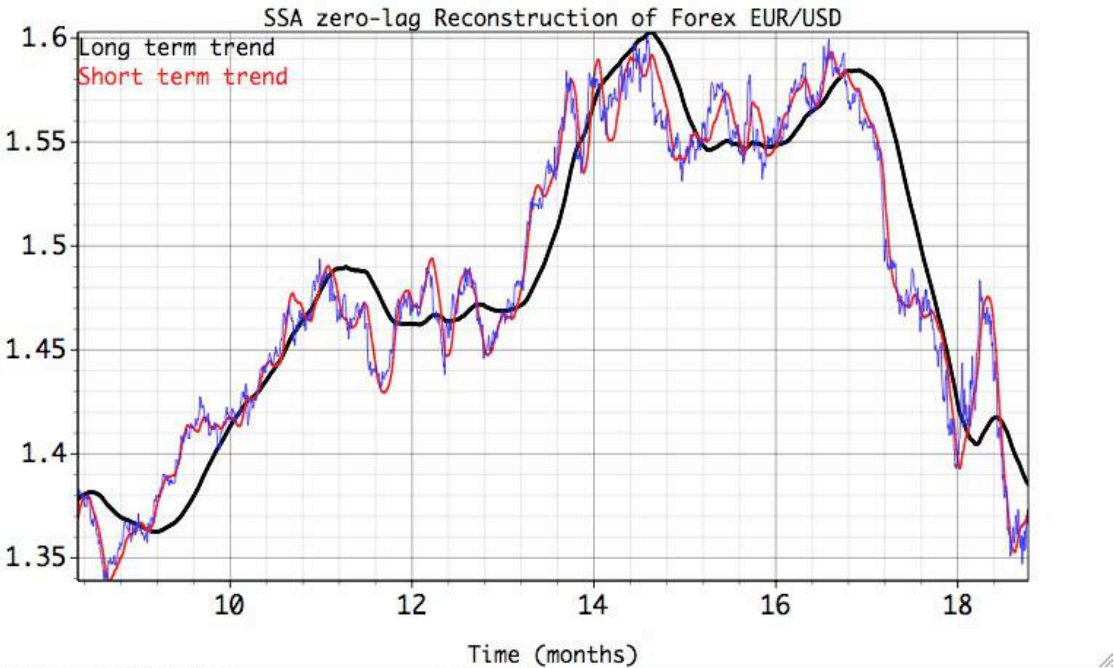
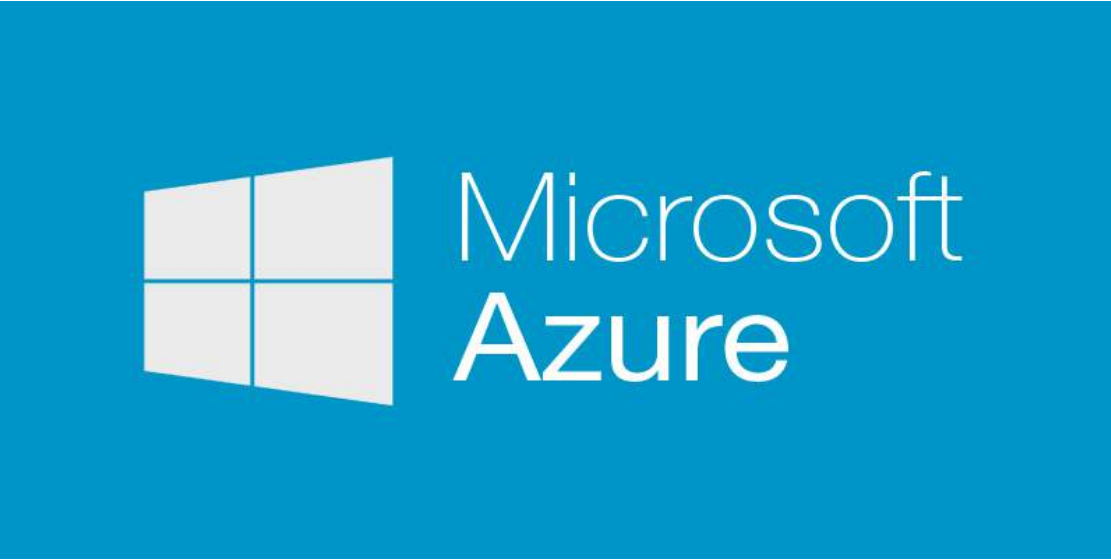








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Muito Obrigado. Perguntas?



Rui Barbosa Martins - ruibm@ruibm.com