



HRVATSKA KOMORA INŽENJERA GRAĐEVINARSTVA

15. Dani Hrvatske komore inženjera građevinarstva

Opatija, 2021.

BIM projektiranje konstrukcija i analitički model

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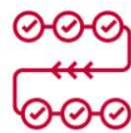
Mirko Jurčević, dipl.ing.građ. ▪ ConTec CRO d.o.o. ▪ Zagreb



Structural Engineering
(Tragwerksplanung)



Wohn- und
Geschäftsgebäude



BIM-Design



Cloud
Collaboration



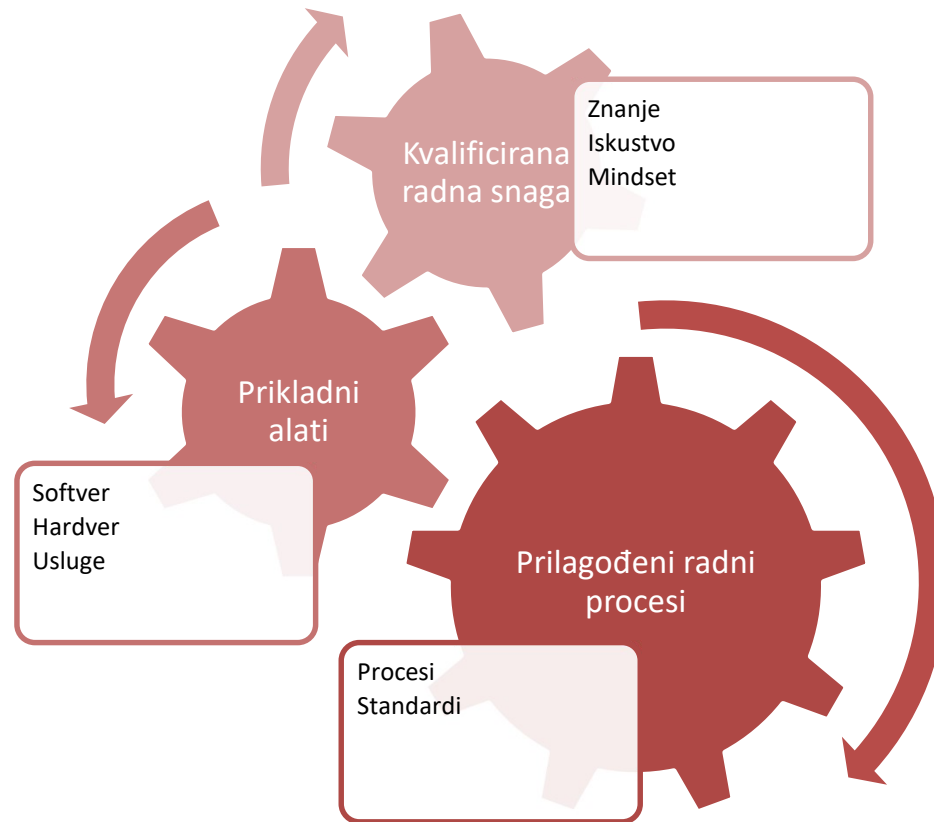
Innovative
Arbeitsweise



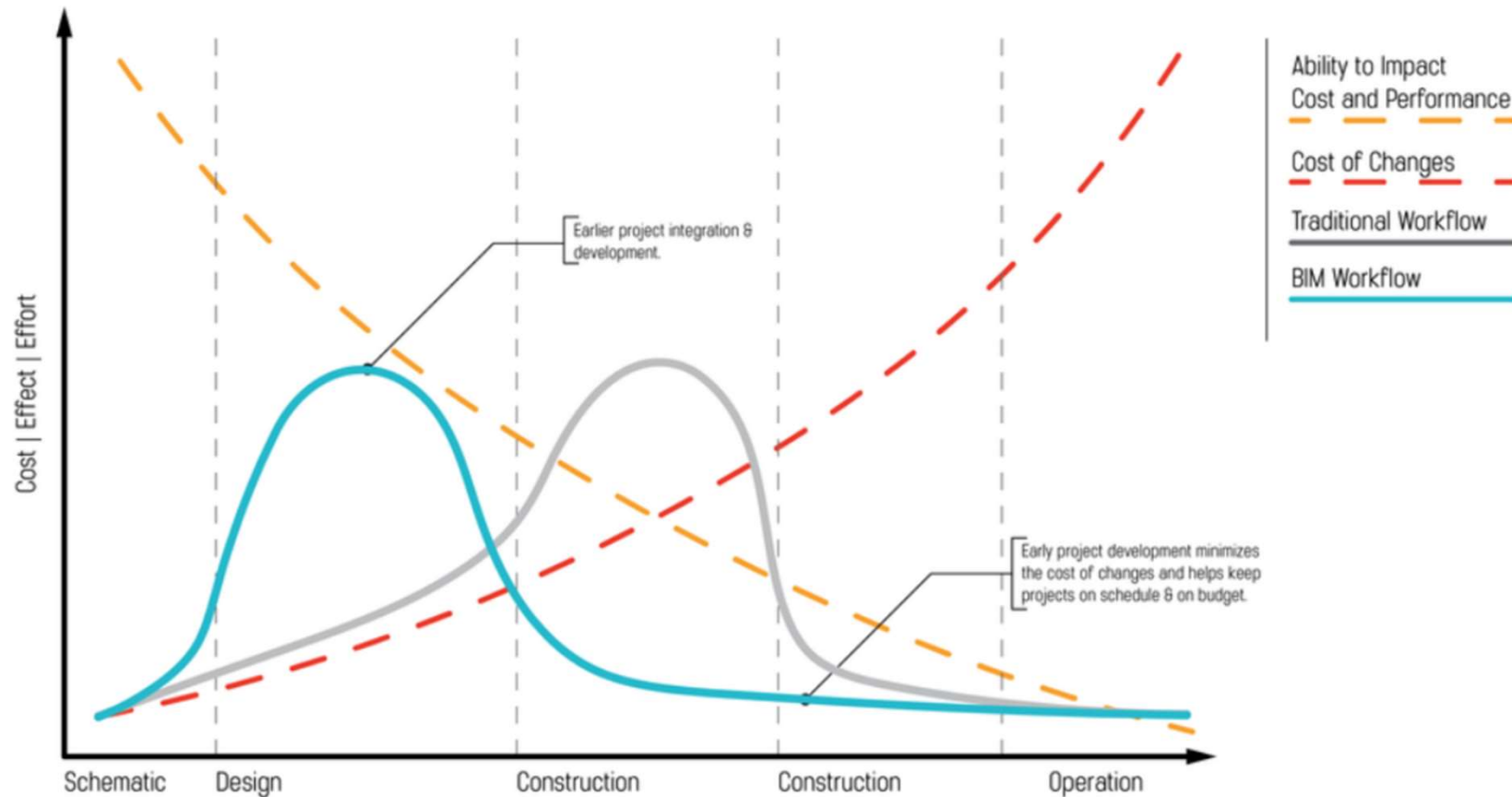
Deutschesprachige
Mitarbeiter



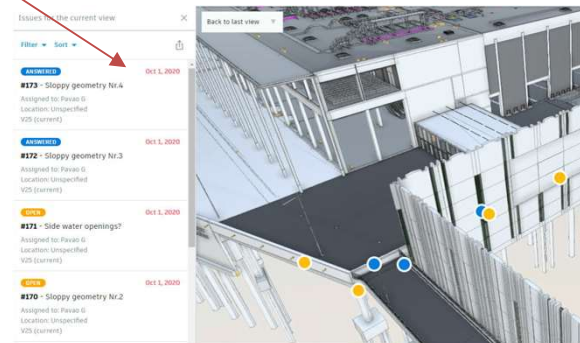
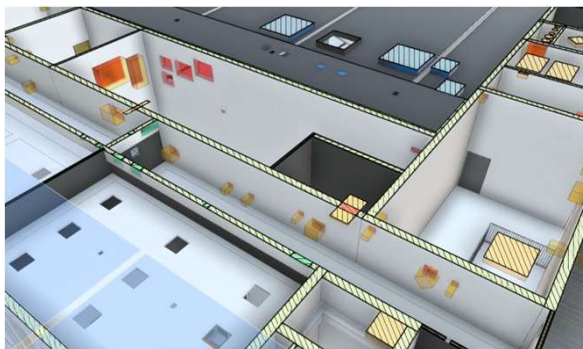
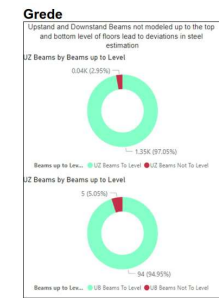
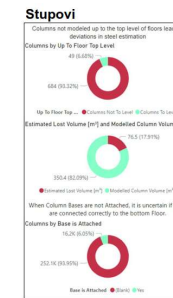
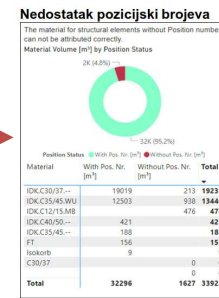
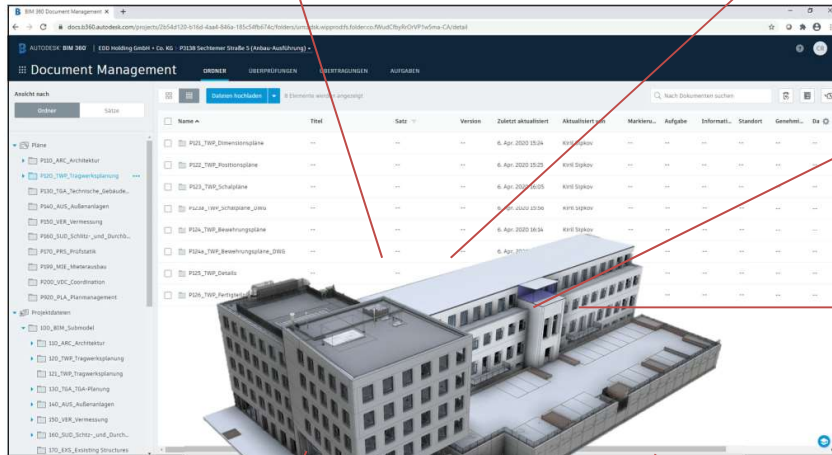
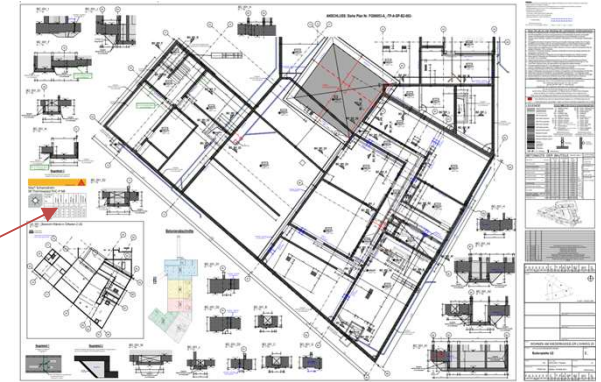
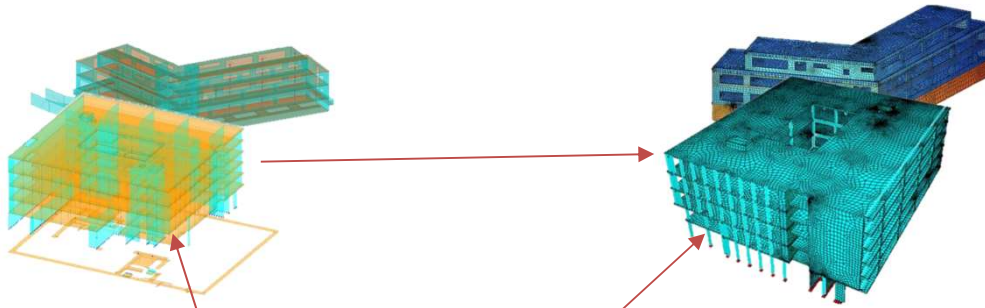
Osnova za primjenu BIM procesa



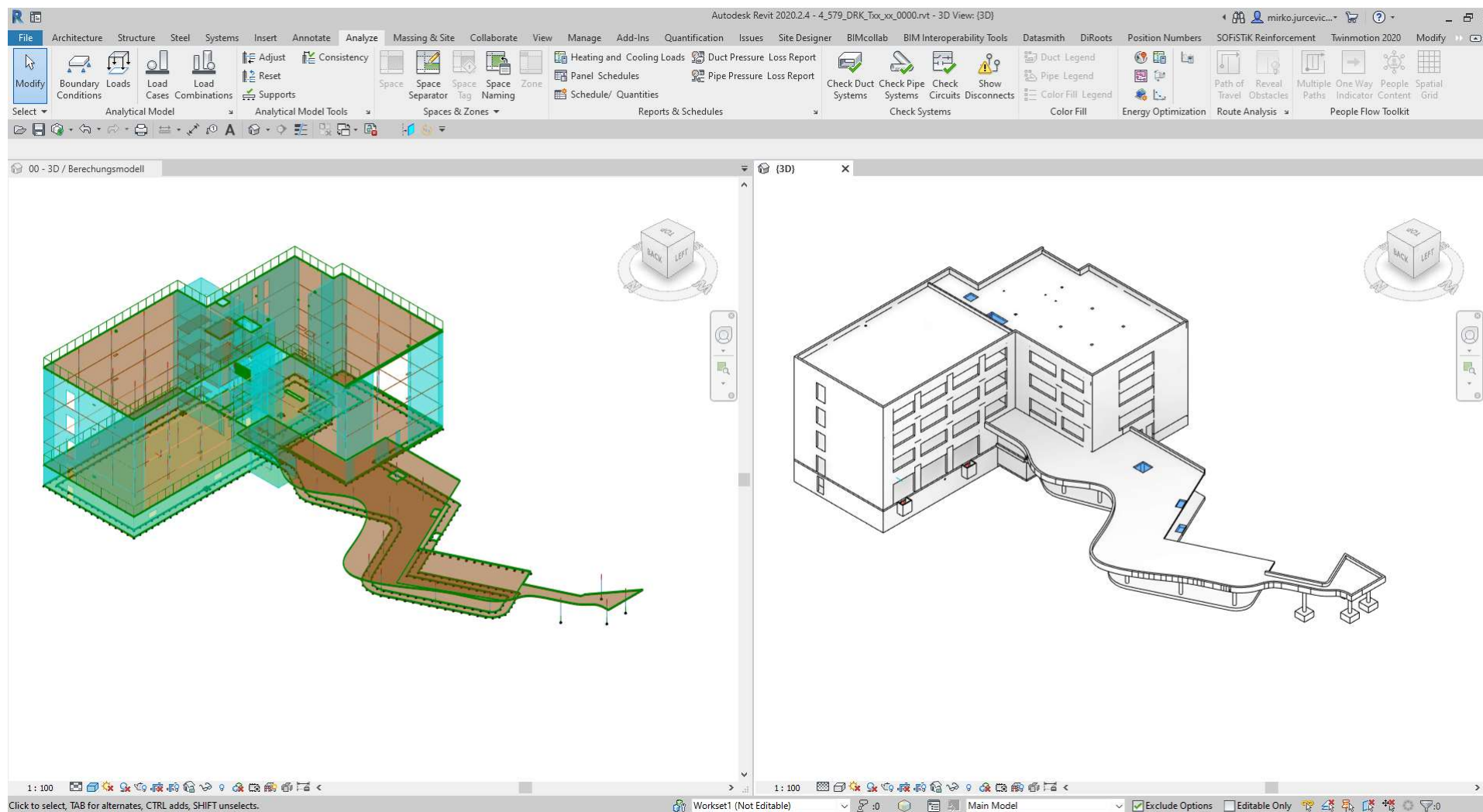
BIM i rane faze projekta



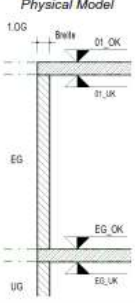
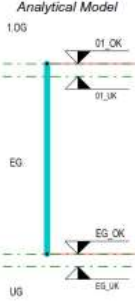
Primjena BIM-a u projektiranju konstrukcija

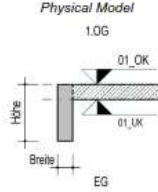


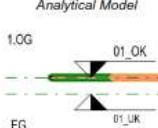



Analitički model



Standard

WA	Wände (Structural Walls)	-
 <p><i>Physical Model</i></p>	DE	Die Wand im EG muss von der Oberseite der EG-Platte (EG_OK) bis zur Unterseite der 1.OG-Platte (01_UK) modelliert werden.
	EN	Wall in the EG needs to be modeled from the top face of the EG slab (EG_OK) to the bottom face of the 1.OG slab (01_UK).
	HR	Zid EG-a se modelira od gornje kote ploče EG-a (EG_OK) do donje kote ploče 1.OG (01_UK).
 <p><i>Analytical Model</i></p>	DE	Die Wandprojektion geht von der obersten Ebene der EG-Platte (EG_OK, auf diese Ebene wird die EG-Platte projiziert) bis zur obersten Ebene der 1.OG-Platte (01_OK, auf diese Ebene wird die 1.OG-Platte projiziert).
	EN	Wall projection goes from top level of the EG slab (EG_OK, on this level is EG slab projected) to the top level of the 1.OG slab (01_OK, on this level is 1.OG slab projected).
	HR	Projekcija zida ide od gornje kote ploče EG-a (EG_OK, na taj nivo se projicira ploča EG-a) do također gornje kote ploče 1.OG (01_OK, na taj nivo se projicira ploča 1.OG-a).

UZ	Unterzug (Structural Framing : Down-stand Beam)	20	
 <p><i>Physical Model</i></p>	DE	Zur Modellierung von Trägern benötigen Sie den "StB Träger (UZ)" aus dem Bauteilkatalog: 	
	EN	Träger, deren Position auf EG steht, müssen auf der Ebene 01_OK modelliert werden. Bei der Modellierung muss dieser eingestellt werden: z Justification: Top	
	HR	When modeling beam, you need the „StB Träger (UZ)“ from Bauteilkatalog:  Beam which position is on EG needs to be modeled on the 01_OK level. When modeling it, set property: z Justification: Top	
 <p><i>Analytical Model</i></p>	DE	Familiju Träger UZ – pronaći u predlošku ili katalogu.  Greda koja pripada nacrtu „Decke über EG“, modelira se na gornjoj koti razine 01 itd. Podesiti parametar: z Justification: Top	
	EN	Die Trägerprojektion geht auf die oberste Ebene der 1.OG-Platte (01_OK, auf diese Ebene wird die 1.OG-Platte projiziert).	
	HR	Beam projection goes to the top level of the 1.OG slab (01_OK, on this level is 1.OG slab projected).	
		HR	Projekcija grede ide na gornju kotu ploče 1.OG (01_OK, na taj nivo se projicira ploča 1.OG-a).



Prednosti / Nedostaci



Integrirani pristup projektiranju, sve informacije na jednom mjestu.

Bolje razumijevanje projekta (konstrukcije).

Lakše prepoznavanje problema i donošenje odluka i rješenja.

Točnost virtualnog modela konstrukcije.



Kompleksnost velikih analitičkih modela.

Nedostatak informacija u ranijim fazama projekta.

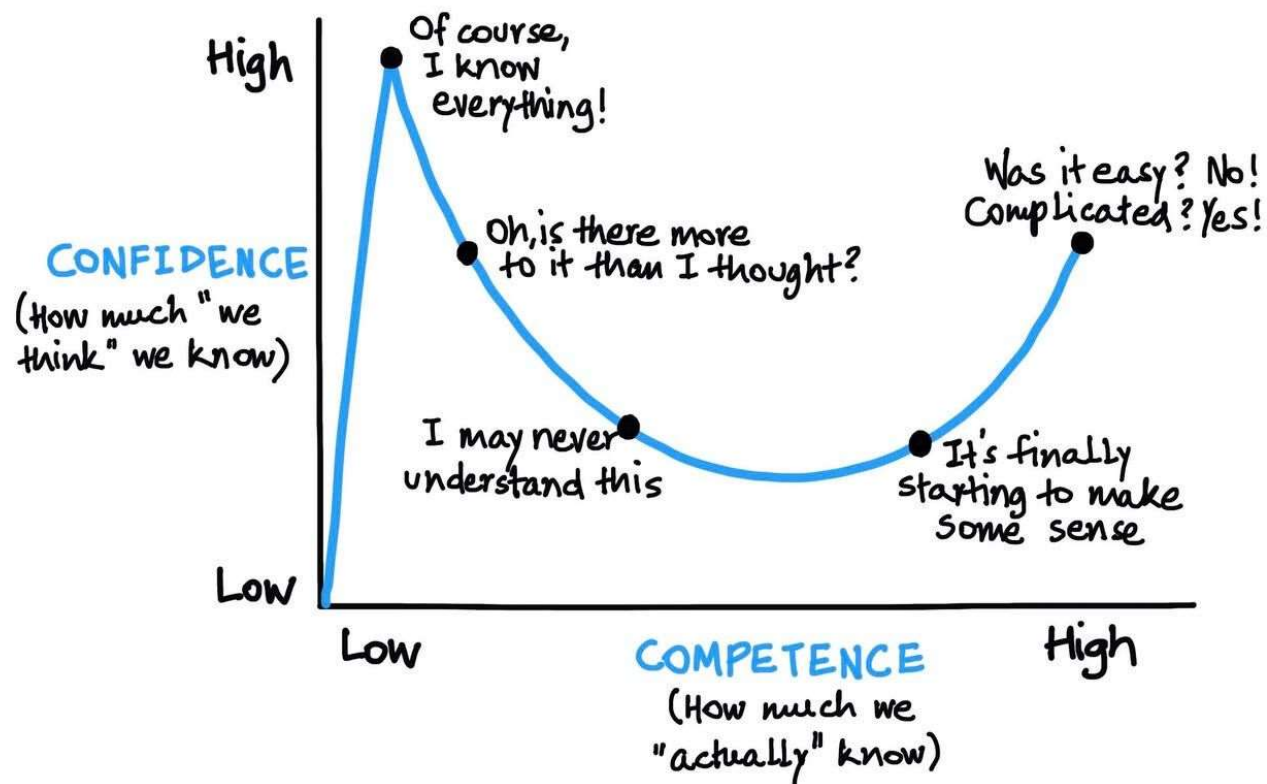
Nedostatak značajki softverskih alata.



Složenost problematike

The Dunning Kruger Effect

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Hvala na pažnji!

