



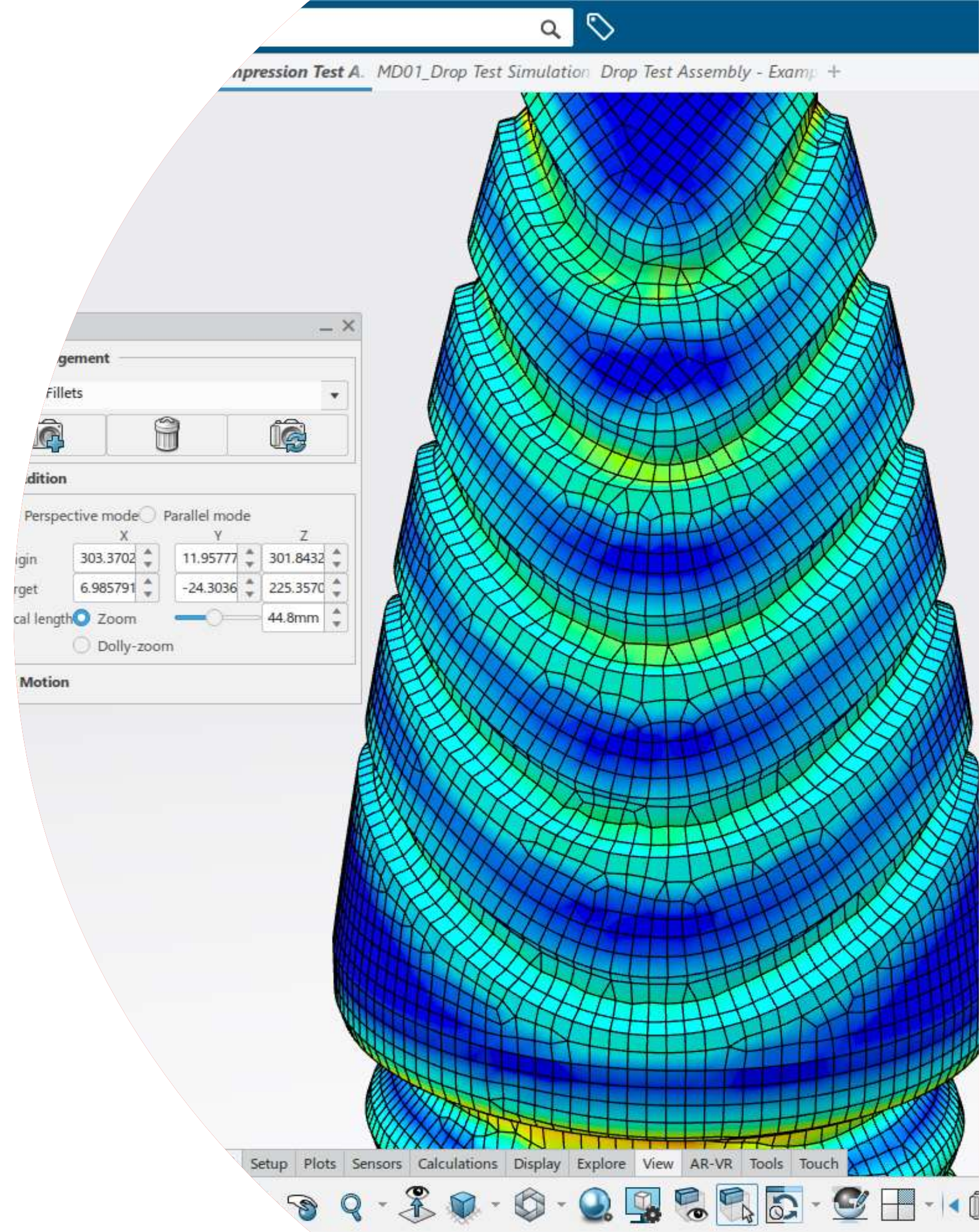
3DEXPERIENCE®

SIMULIA CST studio suite: Elektromagnetinių technologijų diena 2023

3DEXPERIENCEWorks: Inžineriniai skaičiavimai debesijoje ir ne tik!



3DEXPERIENCE® sprendimų tiekėjas Lietuvoje
SOLIDWORKS Palaikymo ir mokymo centras Lietuvoje











Bendradarbiavimas
Projektų valdymas

Gamybos paruošimas

Gamybos valdymas

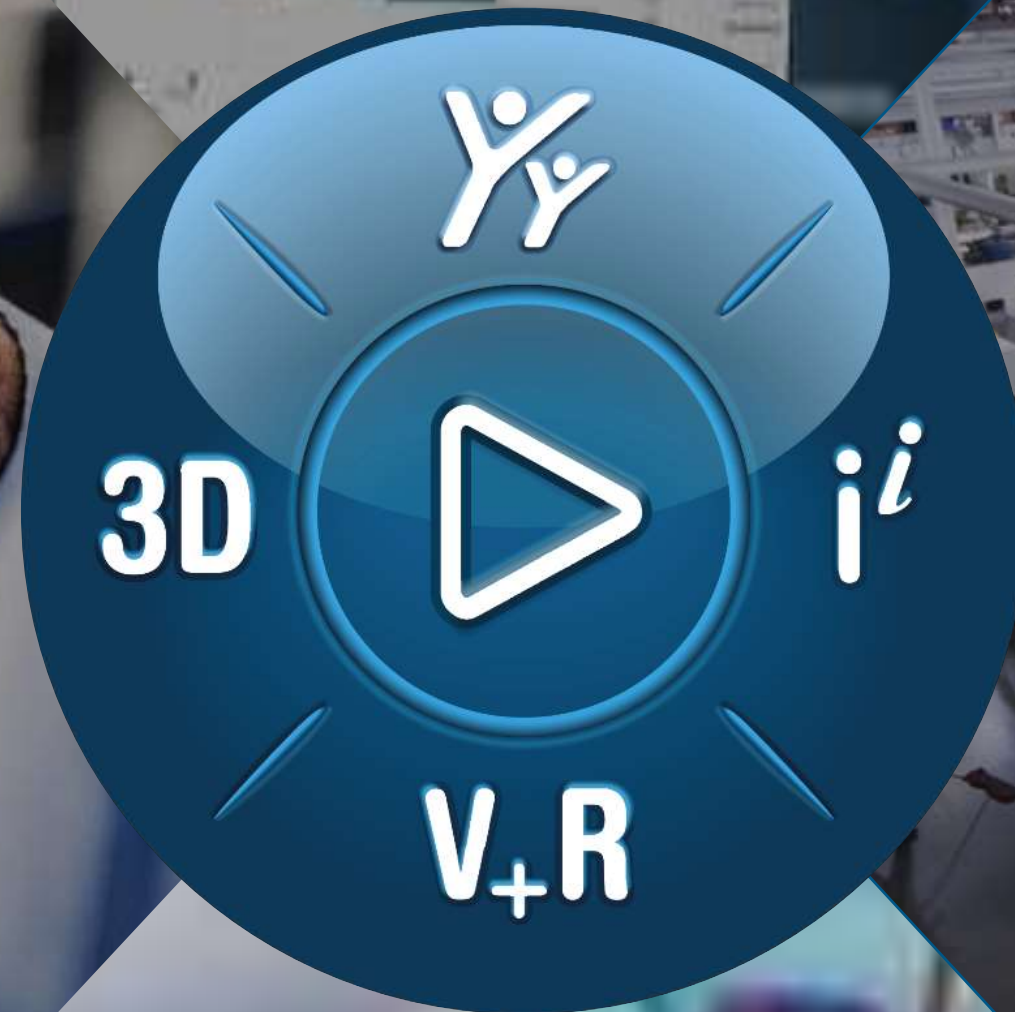
Eksploatavimas ir
techninis aptarnavimas

Virtualus testavimas

Projektavimas

Idėjų generavimas ir
konceptijos kūrimas

Rinkodara



Organizavimui

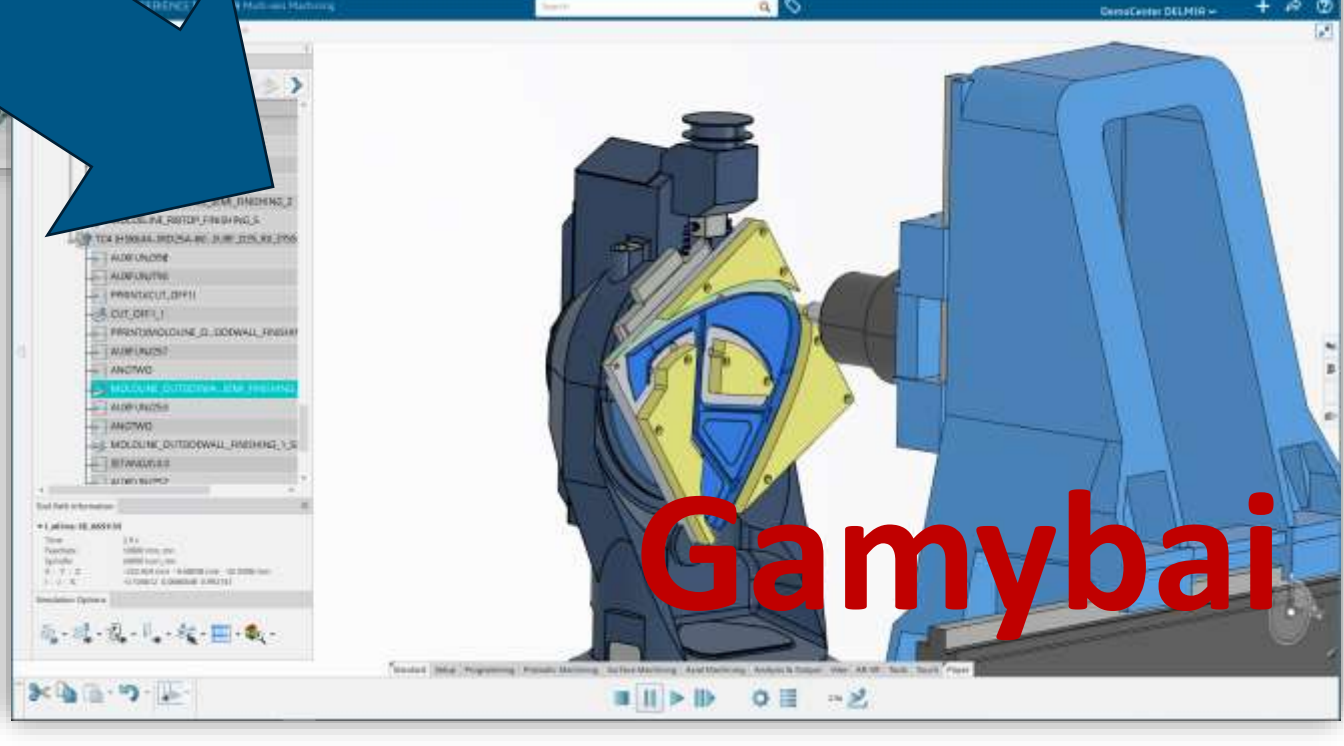
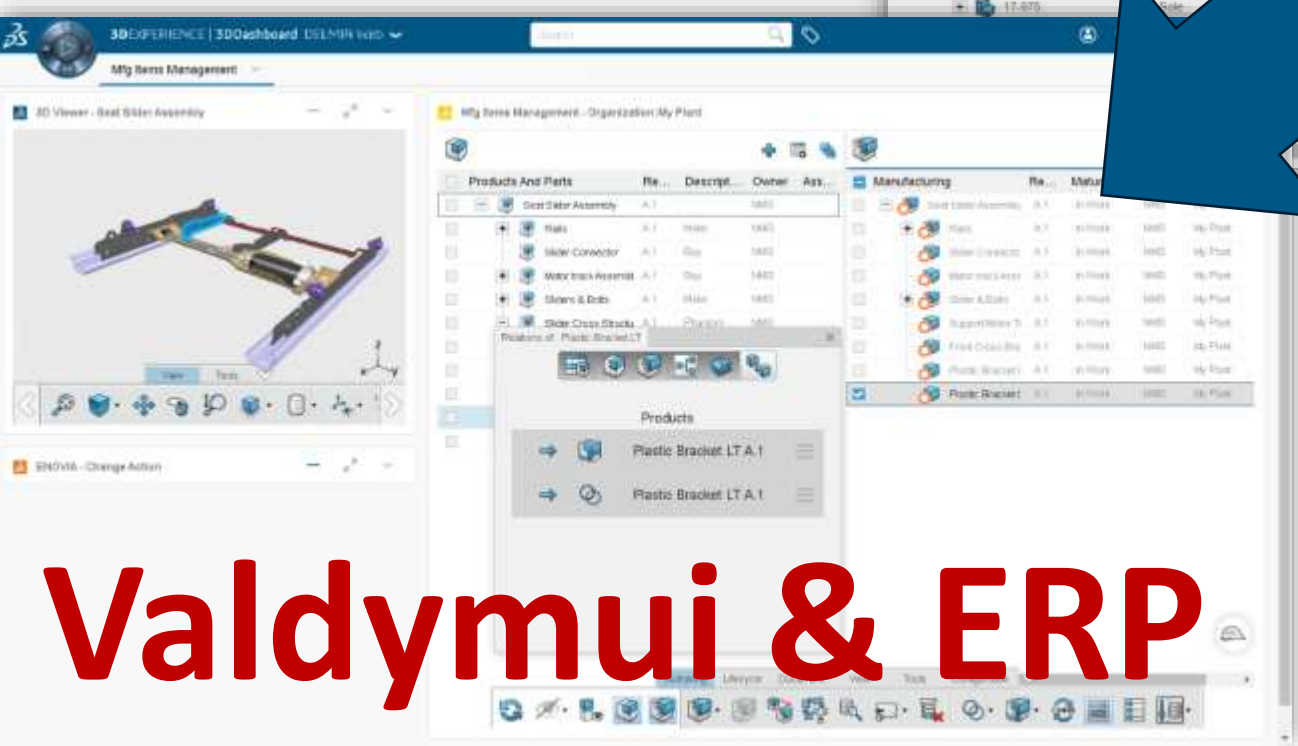
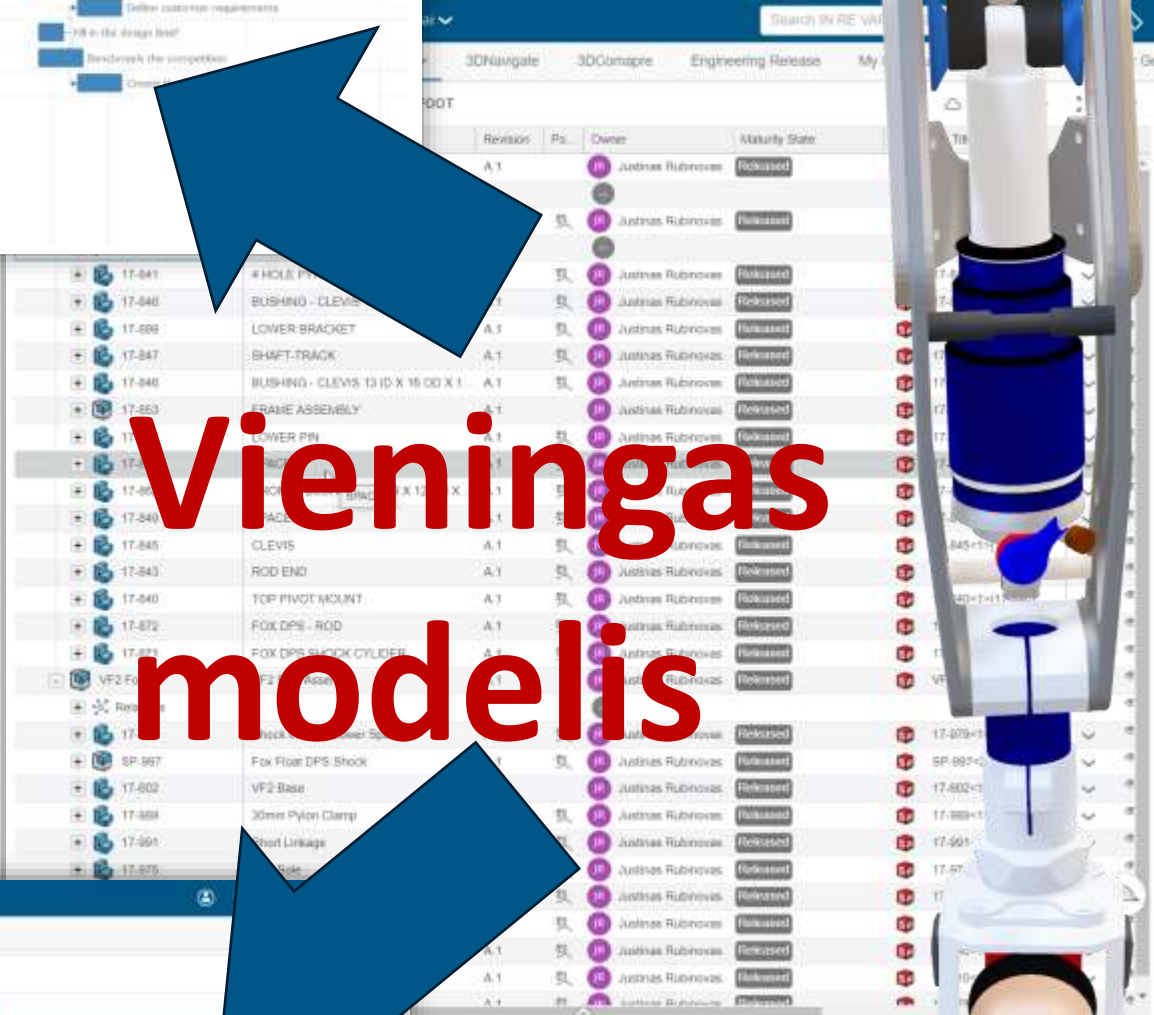
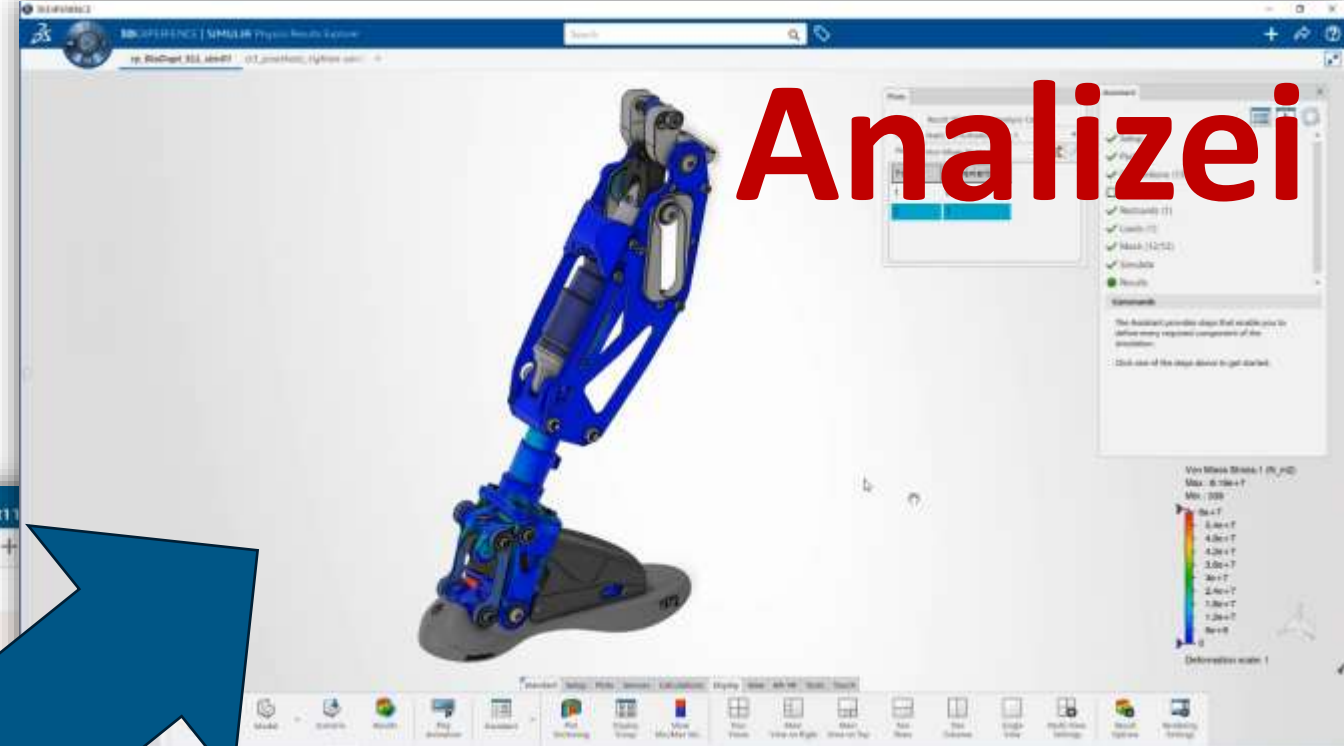
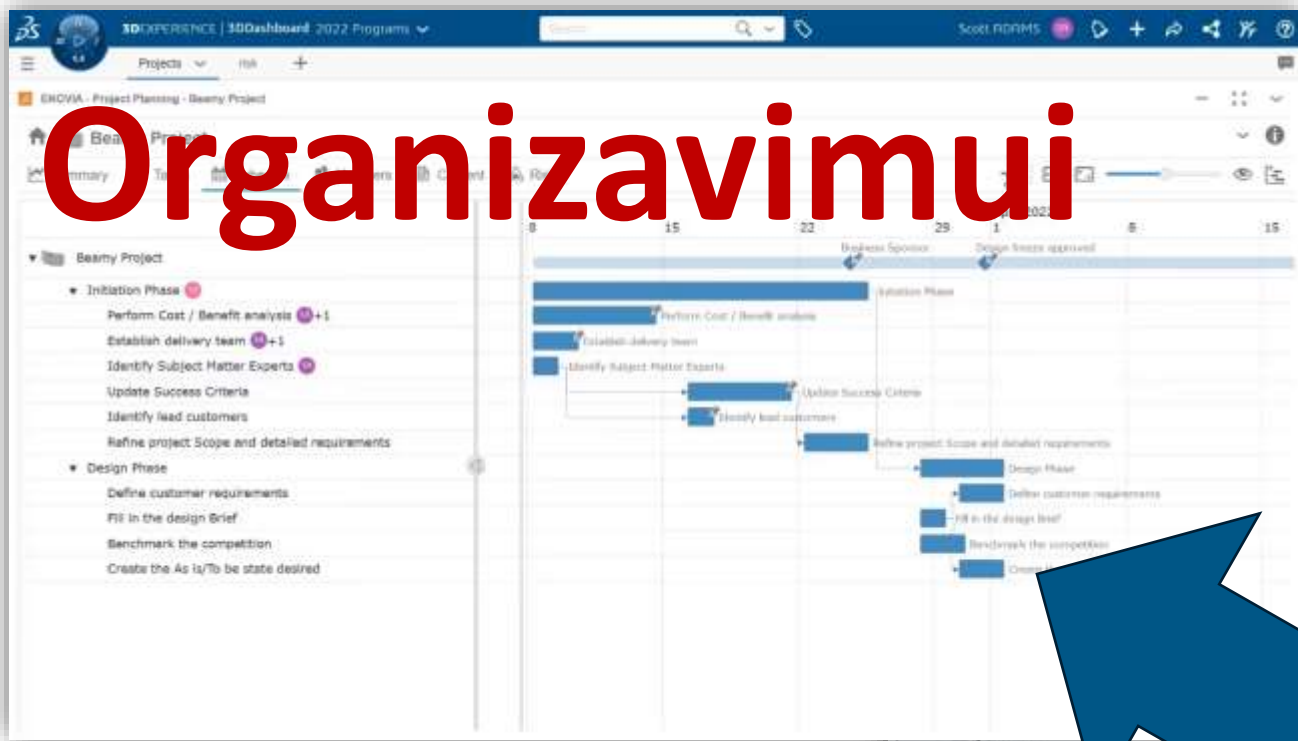
Analizei

**Vieningas
modelis**

duomenų

Valdymui & ERP

Gamybai



Bendradarbiavimas
Projektų valdymas

Gamybos paruošimas

Gamybos valdymas

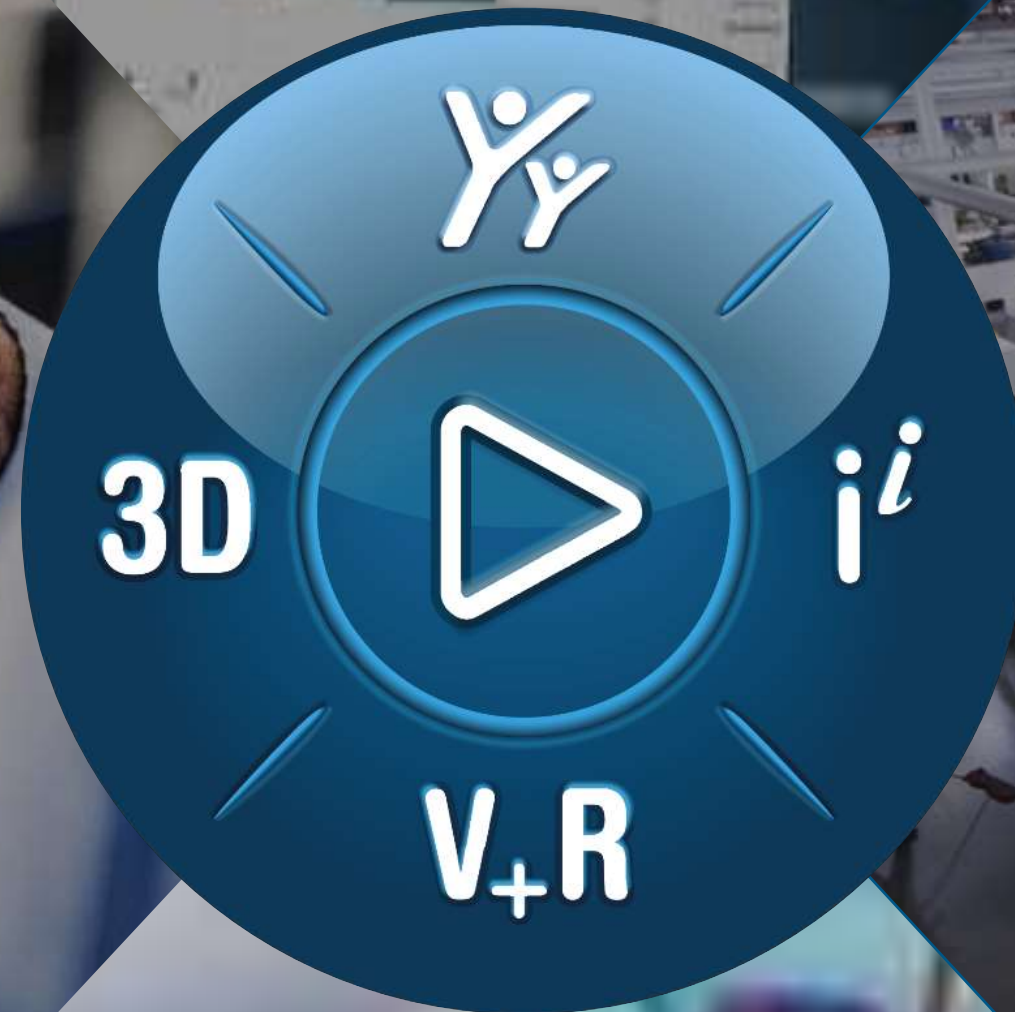
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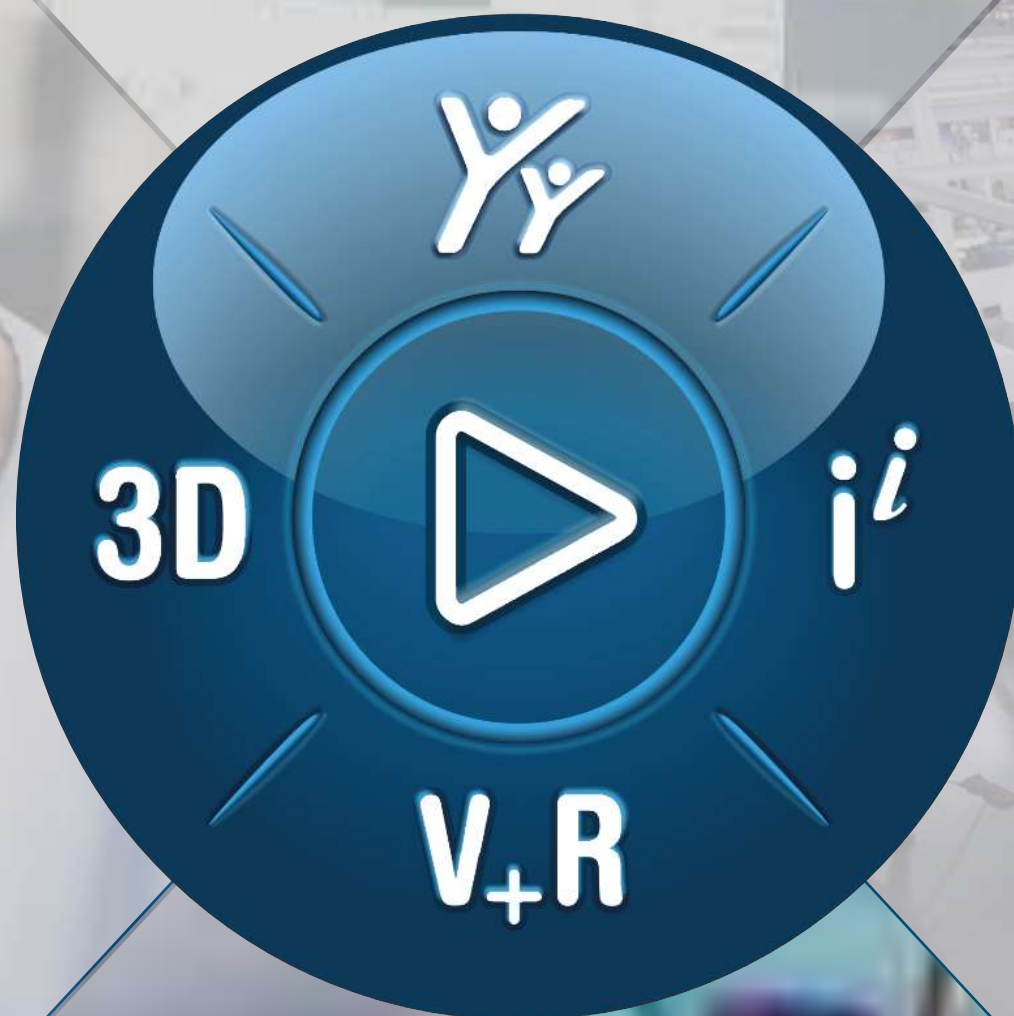
Eksploatavimas ir
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SIM PACK

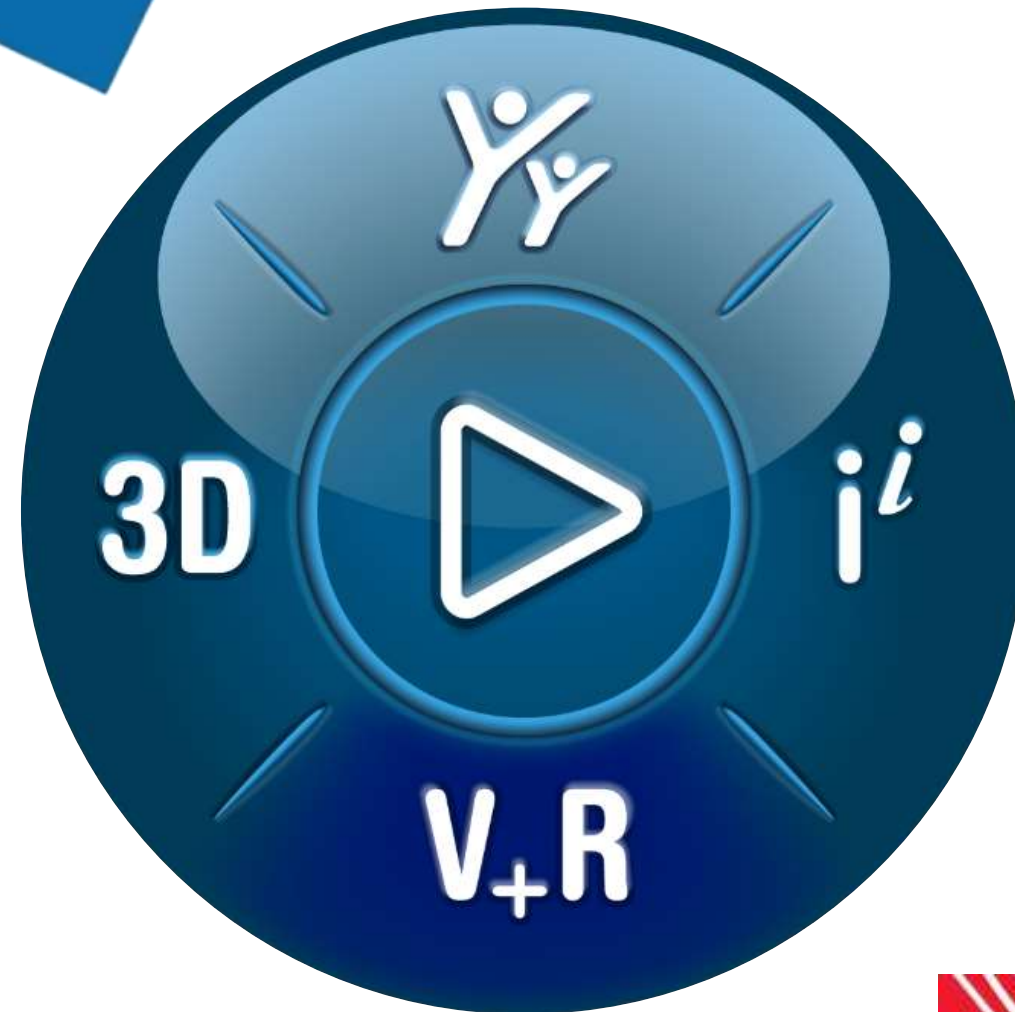
ABAQUS

MatrixOne

TOSCA
STRUCTURE

Dymola

CATIA



SOLIDWORKS
SIMULATION

wave⁶
www.wavesix.com

fe-safe

Opera
Simulation Software

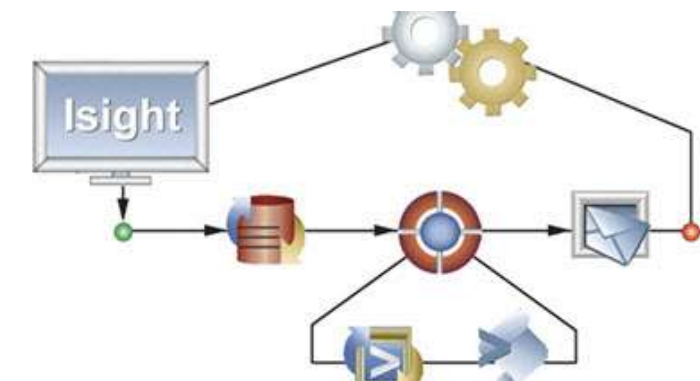
Simpoe

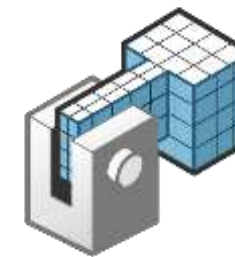
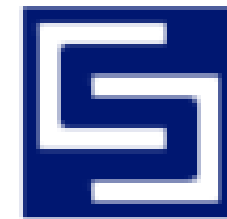
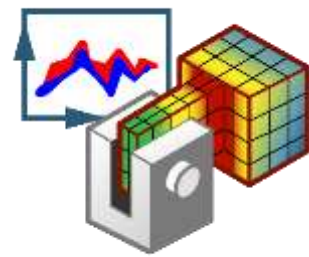
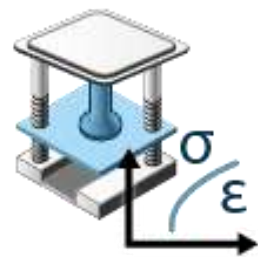
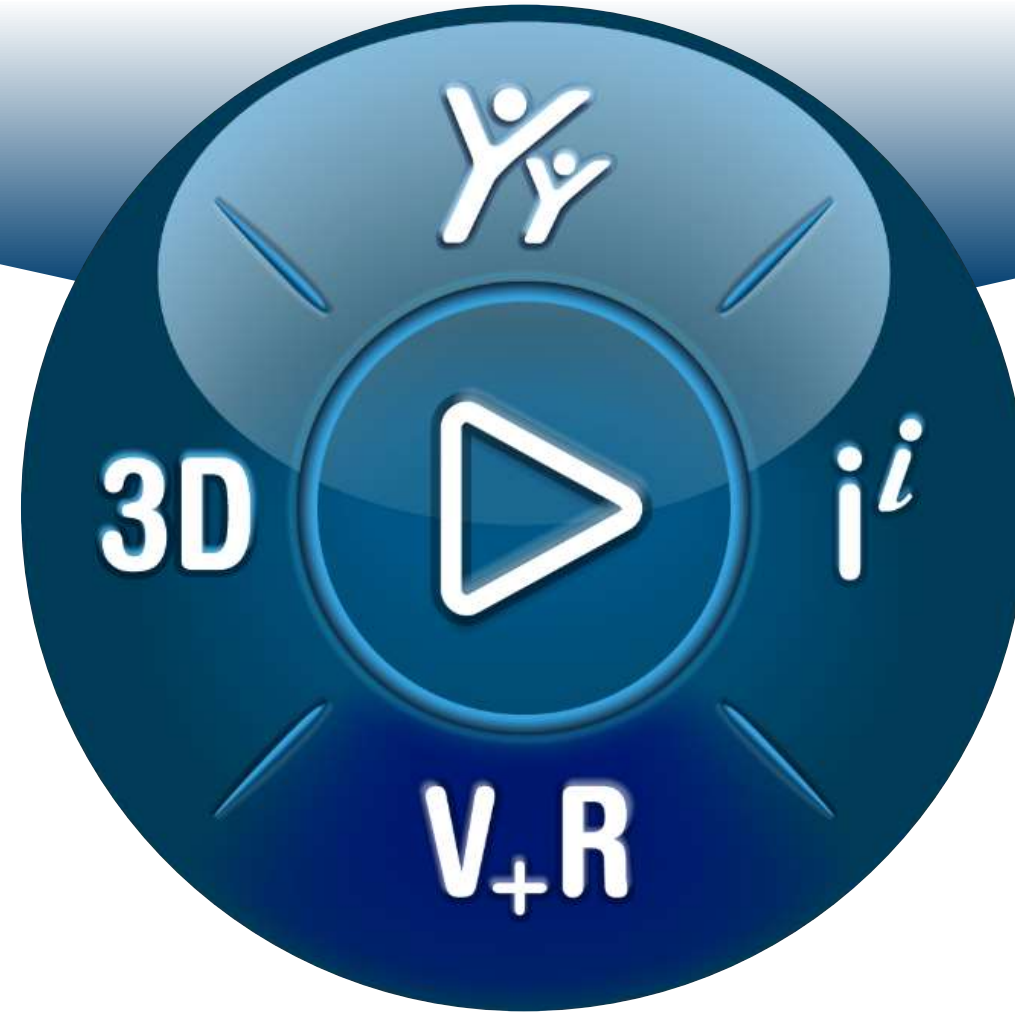
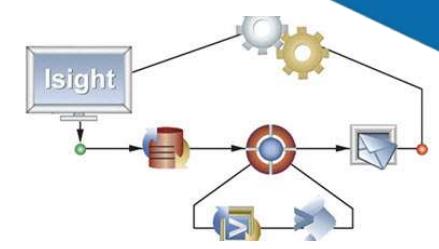


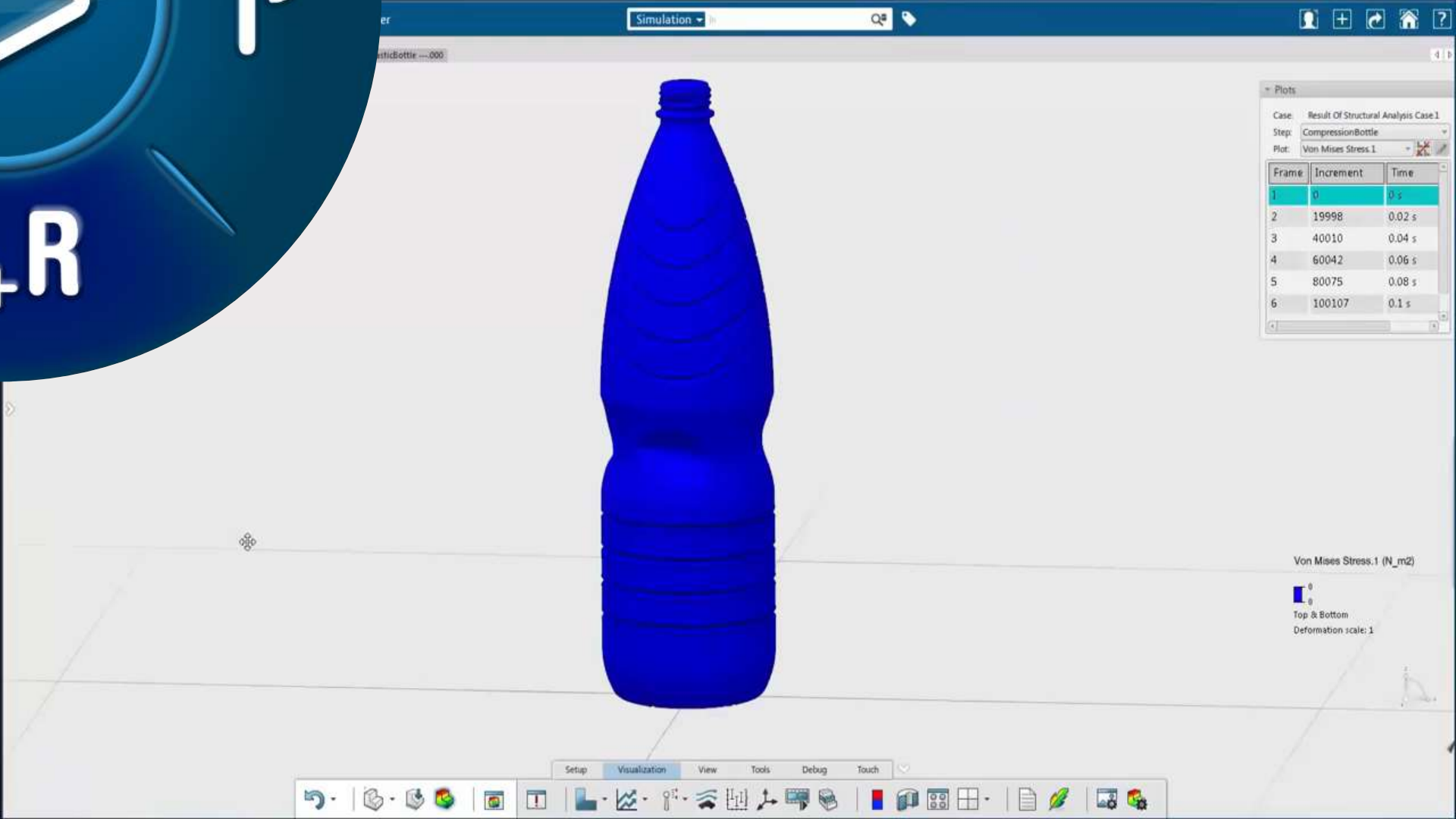
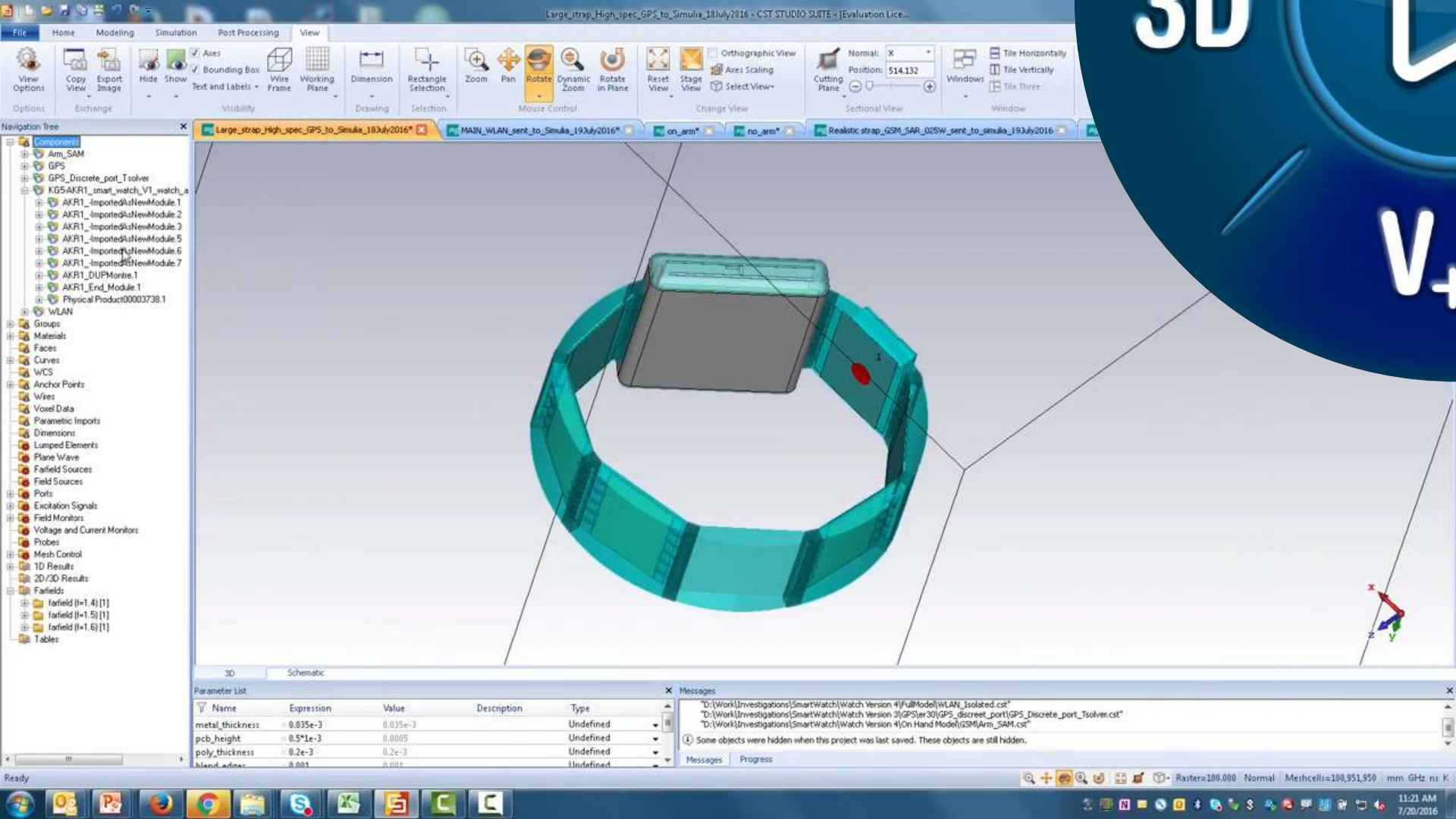
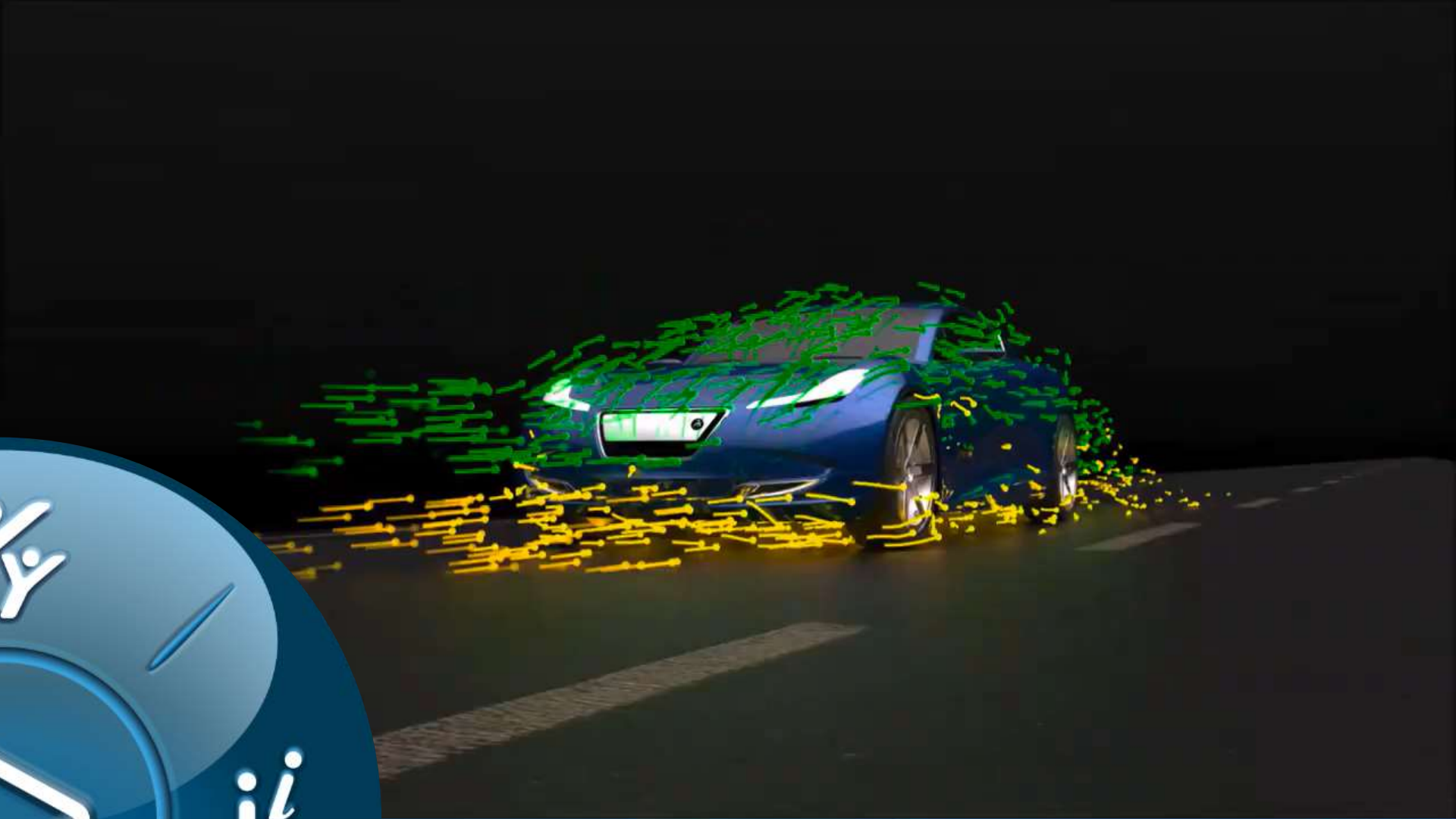
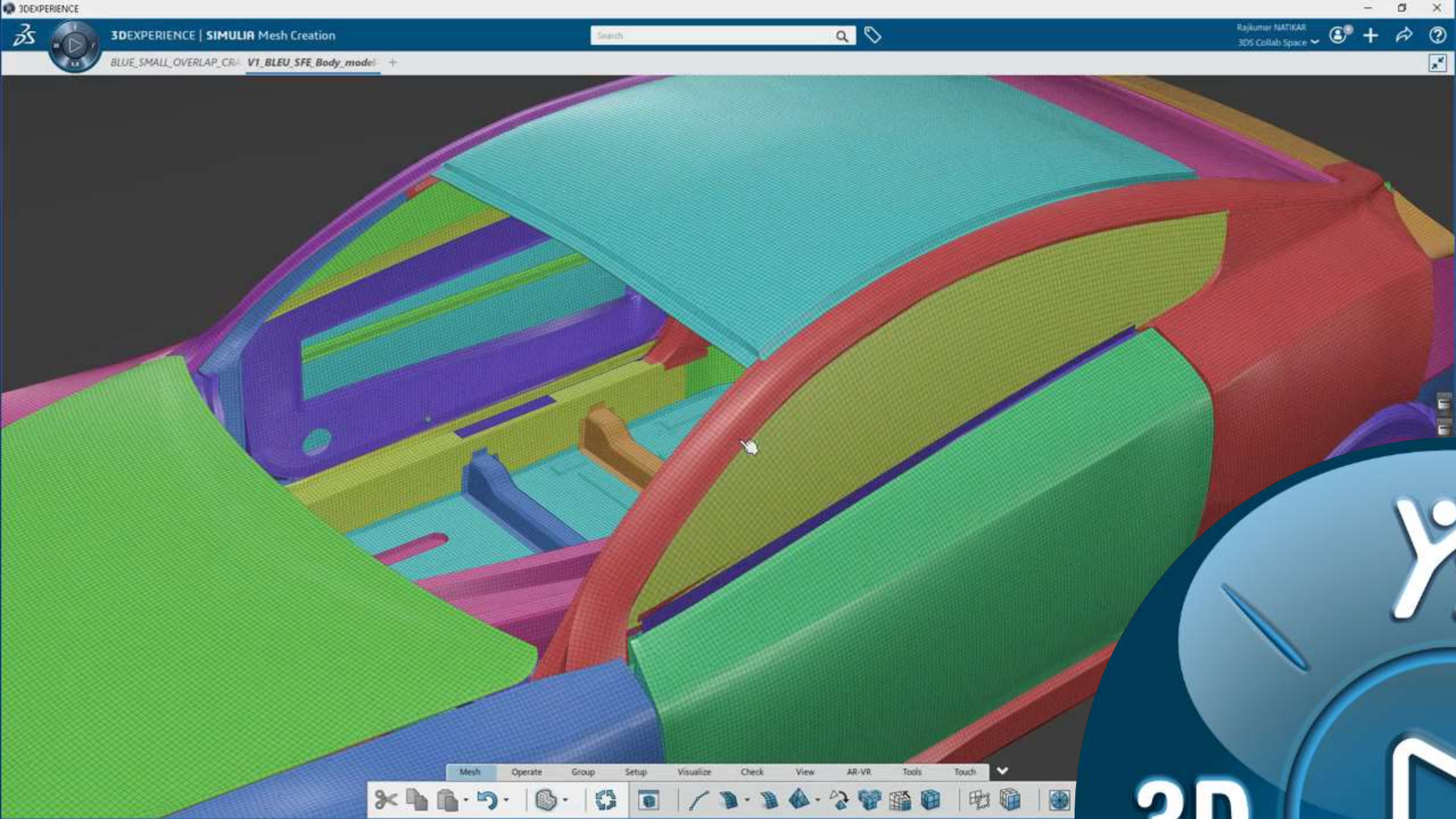
CST Studio Suite

XFLOW

COMPUTATIONAL FLUID DYNAMICS







Frame	Increment	Time
1	0	0 s
2	19998	0.02 s
3	40010	0.04 s
4	60042	0.06 s
5	80075	0.08 s
6	100107	0.1 s



Didelių ir sudėtingų uždavinių skaičiavimas debesijoje



Multi-fizikinių (pereinamų) uždavinių skaičiavimas



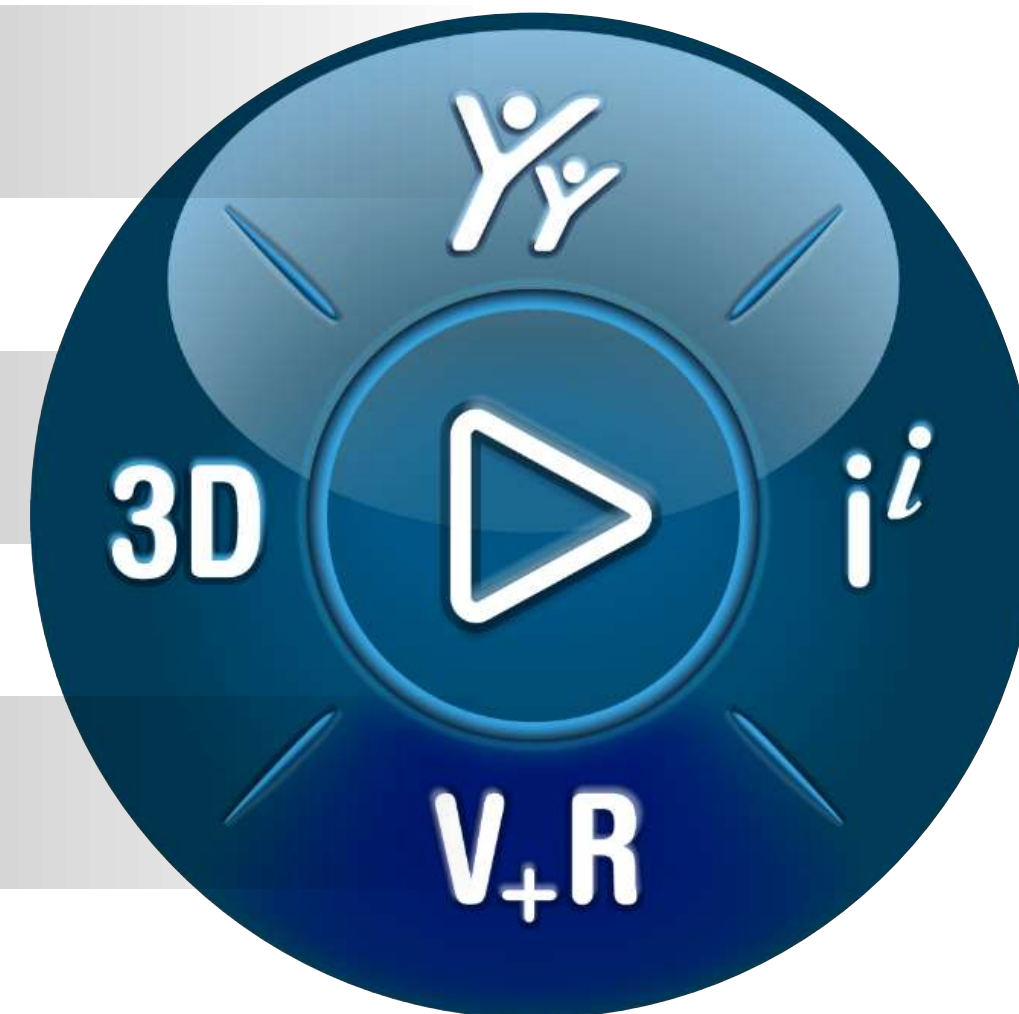
PLM / CAD / EDA integracija

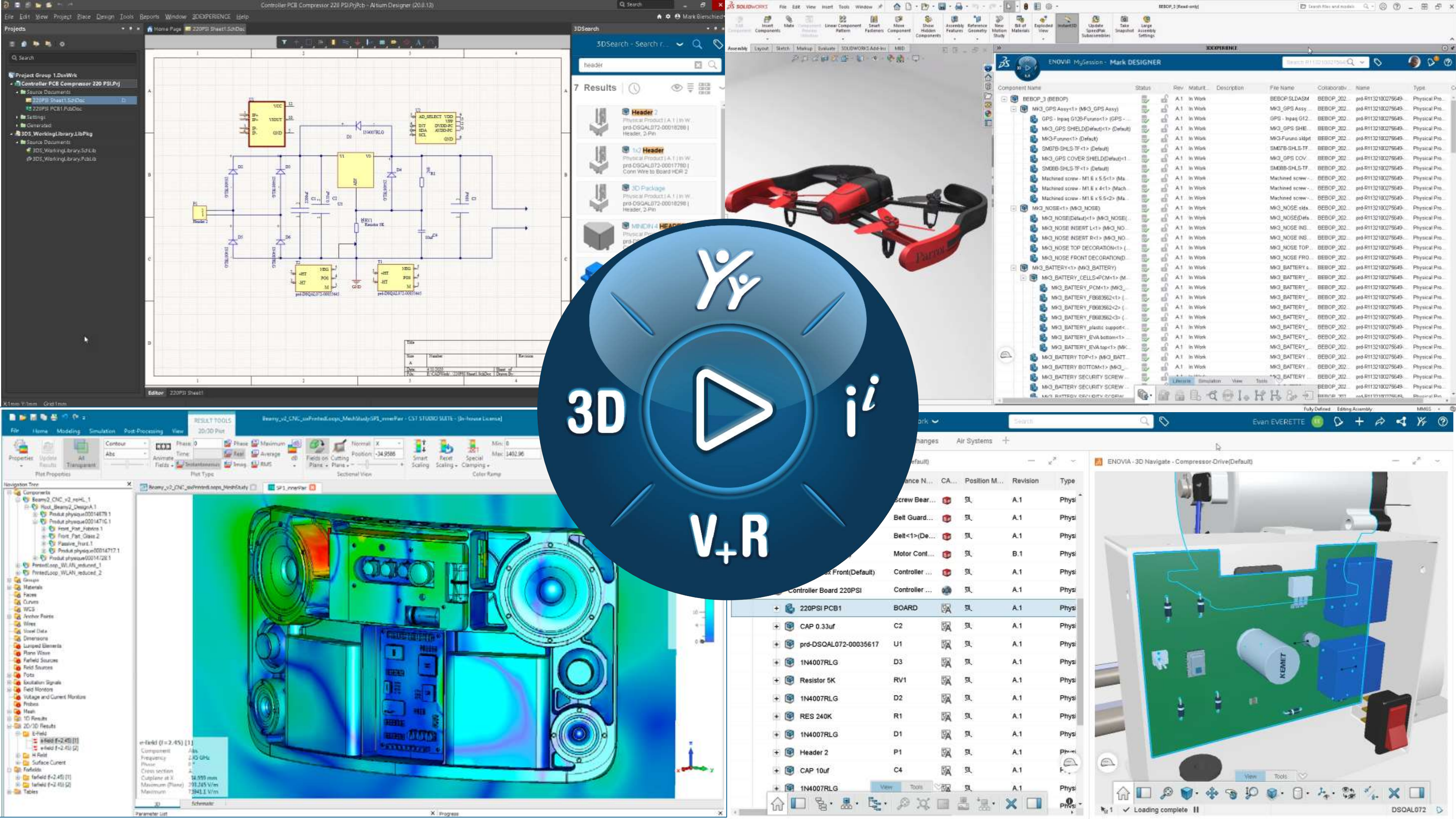


Skaičiavimų valdymas (SPLM)



Bendradarbiavimas ir rezultatų peržiūra





Altium Designer Schematic: Controller PCB Compressor 220 PSI

3DSearch Results:

- Header 2
- 1x2 Header
- 3D Package
- MINDIN 4 HEADERS

SolidWorks Assembly: BEBOP_3 (BEBOP)

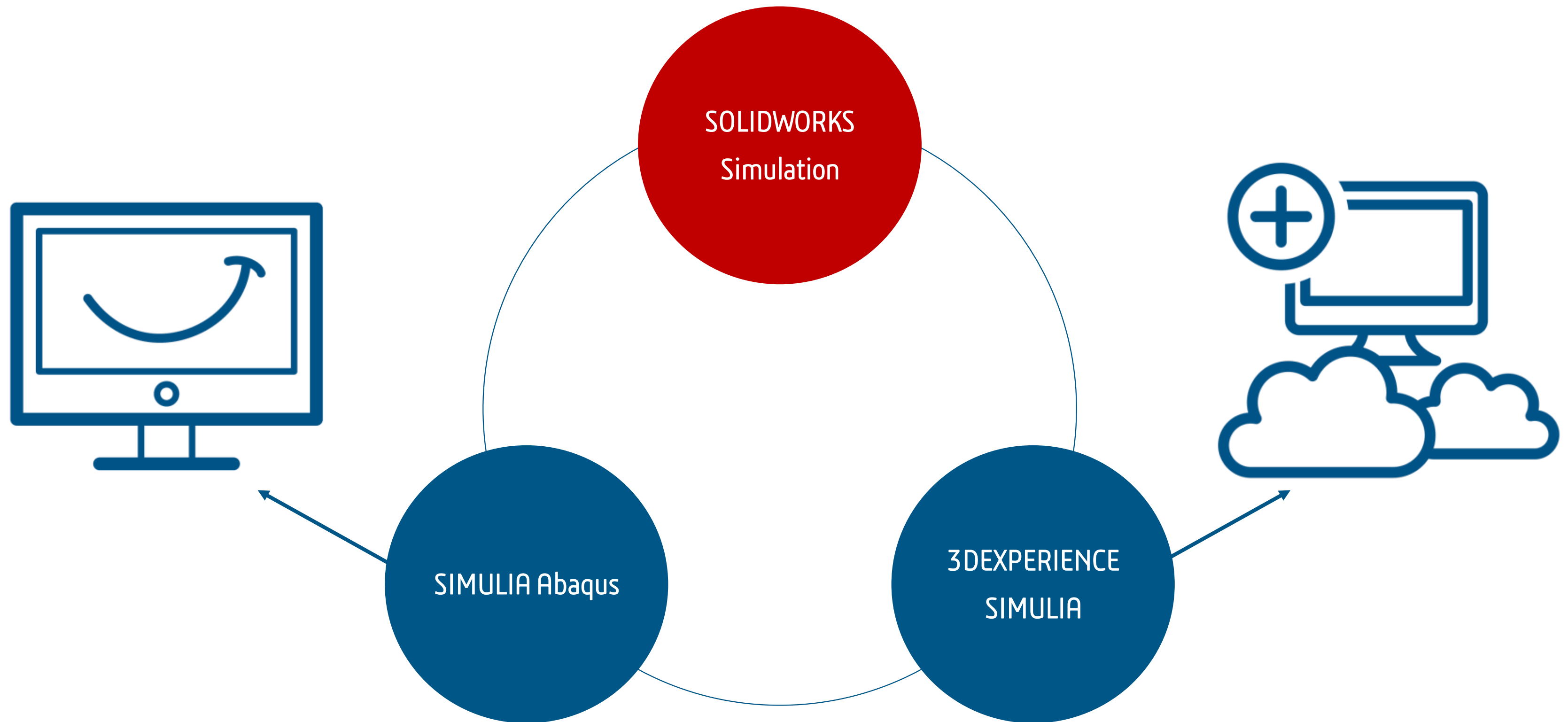
Component Name	Status	Rev	Matur...	Description	File Name	Collaborat...	Name	Type
MK3_GPS Assy<1> (MK3_GPS Assy)	In Work	A.1	In Work		BEBOP_SLDASM	BEBOP_202	prd-R1132100279649	Physical Pro...
GPS - Impaq G128-Funco<1> (GPS - Impaq G128-Funco)	In Work	A.1	In Work		MK3_GPS SHELD(D)Head<1> (Default)	BEBOP_202	prd-R1132100279649	Physical Pro...
MK3_GPS SHIELD(D)Head<1> (Default)	In Work	A.1	In Work		GPS - Impaq G128-Funco	BEBOP_202	prd-R1132100279649	Physical Pro...
MK3-Funco<1> (Default)	In Work	A.1	In Work		MK3_GPS SHE	BEBOP_202	prd-R1132100279649	Physical Pro...
SM07B-SHLS-TF<1> (Default)	In Work	A.1	In Work		MK3B-Funco sMpt	BEBOP_202	prd-R1132100279649	Physical Pro...
MK3_GPS COVER SHELD(D)Head<1> (Default)	In Work	A.1	In Work		SM07B-SHLS-TF	BEBOP_202	prd-R1132100279649	Physical Pro...
MK3B-SHLS-TF<1> (Default)	In Work	A.1	In Work		MK3_GPS COV	BEBOP_202	prd-R1132100279649	Physical Pro...
Machined screw - M1.6 x 5.5<1> (Machined screw - M1.6 x 5.5<1>)	In Work	A.1	In Work		SM07B-SHLS-TF	BEBOP_202	prd-R1132100279649	Physical Pro...
Machined screw - M1.6 x 4<1> (Machined screw - M1.6 x 4<1>)	In Work	A.1	In Work		Machined screw	BEBOP_202	prd-R1132100279649	Physical Pro...
Machined screw - M1.6 x 5.5<2> (Machined screw - M1.6 x 5.5<2>)	In Work	A.1	In Work		Machined screw	BEBOP_202	prd-R1132100279649	Physical Pro...
MK3_NOSE<1> (MK3_NOSE)	In Work	A.1	In Work		MK3_NOSE sMpt	BEBOP_202	prd-R1132100279649	Physical Pro...
MK3_NOSE(D)Head<1> (MK3_NOSE(D)Head)	In Work	A.1	In Work		MK3_NOSE(D)Head	BEBOP_202	prd-R1132100279649	Physical Pro...
MK3_NOSE INSERT L<1> (MK3_NOSE INSERT L)	In Work	A.1	In Work		MK3_NOSE INS	BEBOP_202	prd-R1132100279649	Physical Pro...
MK3_NOSE INSERT R<1> (MK3_NOSE INSERT R)	In Work	A.1	In Work		MK3_NOSE INS	BEBOP_202	prd-R1132100279649	Physical Pro...
MK3_NOSE TOP DECORATION<1> (MK3_NOSE TOP DECORATION)	In Work	A.1	In Work		MK3_NOSE TOP	BEBOP_202	prd-R1132100279649	Physical Pro...
MK3_NOSE FRONT DECORATION<1> (MK3_NOSE FRONT DECORATION)	In Work	A.1	In Work		MK3_NOSE FRO	BEBOP_202	prd-R1132100279649	Physical Pro...
MK3_BATTERY<1> (MK3_BATTERY)	In Work	A.1	In Work		MK3_BATTERY s	BEBOP_202	prd-R1132100279649	Physical Pro...
MK3_BATTERY_CELLS+PCM<1> (MK3_BATTERY_CELLS+PCM)	In Work	A.1	In Work		MK3_BATTERY_	BEBOP_202	prd-R1132100279649	Physical Pro...
MK3_BATTERY_PCM<1> (MK3_BATTERY_PCM)	In Work	A.1	In Work		MK3_BATTERY_	BEBOP_202	prd-R1132100279649	Physical Pro...
MK3_BATTERY_FB663562<1> (MK3_BATTERY_FB663562)	In Work	A.1	In Work		MK3_BATTERY_	BEBOP_202	prd-R1132100279649	Physical Pro...
MK3_BATTERY_FB663562<2> (MK3_BATTERY_FB663562)	In Work	A.1	In Work		MK3_BATTERY_	BEBOP_202	prd-R1132100279649	Physical Pro...
MK3_BATTERY_FB663562<3> (MK3_BATTERY_FB663562)	In Work	A.1	In Work		MK3_BATTERY_	BEBOP_202	prd-R1132100279649	Physical Pro...
MK3_BATTERY_plastic support<1> (MK3_BATTERY_plastic support)	In Work	A.1	In Work		MK3_BATTERY_	BEBOP_202	prd-R1132100279649	Physical Pro...
MK3_BATTERY_EVA bottom<1> (MK3_BATTERY_EVA bottom)	In Work	A.1	In Work		MK3_BATTERY_	BEBOP_202	prd-R1132100279649	Physical Pro...
MK3_BATTERY_EVA top<1> (MK3_BATTERY_EVA top)	In Work	A.1	In Work		MK3_BATTERY_	BEBOP_202	prd-R1132100279649	Physical Pro...
MK3_BATTERY TOP<1> (MK3_BATTERY TOP)	In Work	A.1	In Work		MK3_BATTERY_	BEBOP_202	prd-R1132100279649	Physical Pro...
MK3_BATTERY BOTTOM<1> (MK3_BATTERY BOTTOM)	In Work	A.1	In Work		MK3_BATTERY_	BEBOP_202	prd-R1132100279649	Physical Pro...
MK3_BATTERY SECURITY SCREW<1> (MK3_BATTERY SECURITY SCREW)	In Work	A.1	In Work		MK3_BATTERY_	BEBOP_202	prd-R1132100279649	Physical Pro...
MK3_BATTERY SECURITY SCREW<2> (MK3_BATTERY SECURITY SCREW)	In Work	A.1	In Work		MK3_BATTERY_	BEBOP_202	prd-R1132100279649	Physical Pro...

ANSYS Simulation: Reamy_v2_CNC_assembly

ENOVIA - 3D Navigate - Compressor-Drive(Default)

Component	Quantity	CA...	Position M...	Revision	Type
Screw Bear...	1	CA...	Position M...	A.1	Physi
Bell Guard...	1	CA...	Position M...	A.1	Physi
Bell<1>(De...	1	CA...	Position M...	A.1	Physi
Motor Cont...	1	CA...	Position M...	B.1	Physi
Controller ...	1	CA...	Position M...	A.1	Physi
Controller ...	1	CA...	Position M...	A.1	Physi
220PSI PCB1	1	BOARD	CA...	A.1	Physi
CAP 0.33uf	1	C2	CA...	A.1	Physi
prd-DSOAL072-00035617	1	U1	CA...	A.1	Physi
1N4007RLG	1	D3	CA...	A.1	Physi
Resistor 5K	1	RV1	CA...	A.1	Physi
1N4007RLG	1	D2	CA...	A.1	Physi
RES 240K	1	R1	CA...	A.1	Physi
1N4007RLG	1	D1	CA...	A.1	Physi
Header 2	1	P1	CA...	A.1	Physi
CAP 10uf	1	C4	CA...	A.1	Physi
1N4007RLG	1		CA...	A.1	Physi

DASSAULT SYSTEMES SIMULIA PRODUKTŲ PORTFELIS

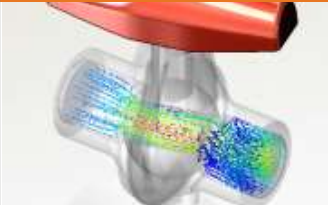



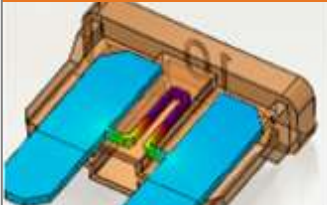

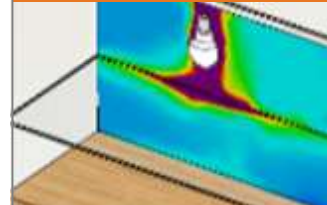


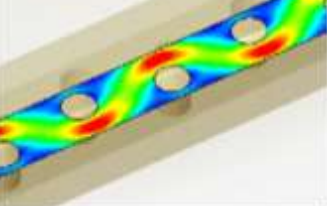
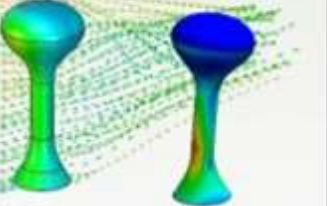
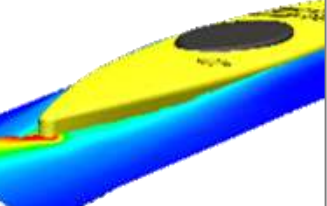
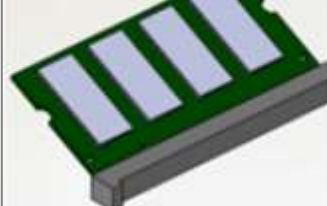
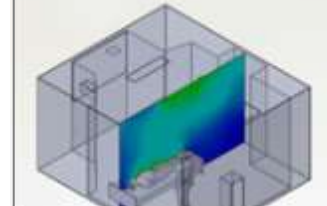
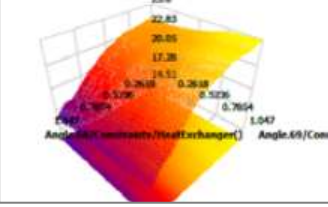

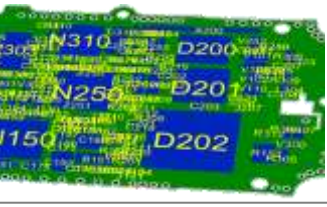
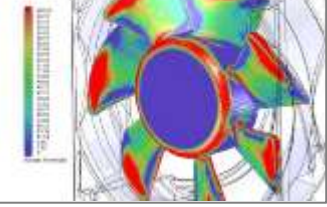
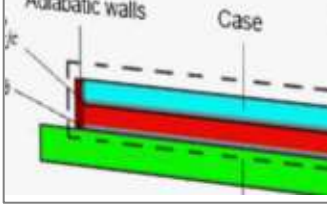


SOLIDWORKS SIMULATION – STIPRUMINIAI SKAIČIAVIMAI



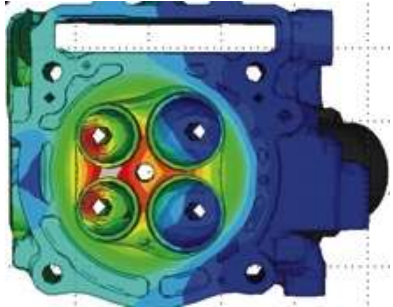
* Part of SOLIDWORKS Premium

SOLIDWORKS – SRAUTŲ IR ŠILUMOS PERNEŠIMO UŽDAVINIAI

Flow Simulation				Electronic Cooling		HVAC	
Internal & External 	Laminar & Turbulent 	Heat Transfer 	Rotating Components 	Joule Heating 	Heat Pipes 	Advanced Radiation 	Tracer Study 
Compressible 	Non-Newtonian 	Results Exchange 	Transient & Free Surface 	PCB Generator 	Extended Database <ul style="list-style-type: none"> ① Contact Thermal Resistances ② Fans ③ Heat Sinks ④ Materials ⑤ Printed Circuit Boards ⑥ Thermoelectric Coolers ⑦ Two-Resistor Components 	Comfort Parameters 	Extended Database <ul style="list-style-type: none"> ① Materialien ② Städte ③ Strahlungsoberflächen ④ Strahlungsspektren ⑤ Tracer
Parameter Optimization 	eDrawings Support 	ECAD Interchange 	Acoustic Power Level 	2R-Component 			

SIMULIA / ABAQUS SPRENDIMAI

Abaqus



FEA Multiphysics Simulation

Isight



Process Integration & Design Optimization

Tosca



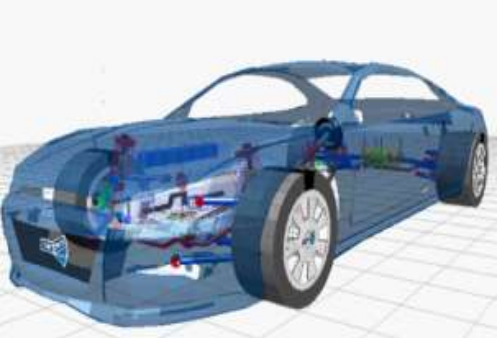
Non-parametric Optimization

fe-safe



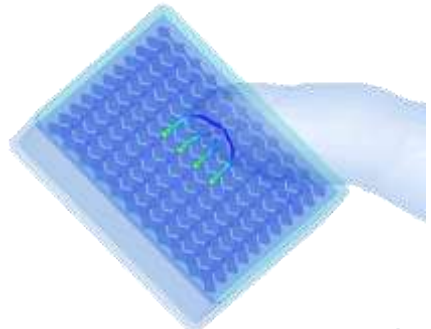
Durability & Fatigue

Simpack



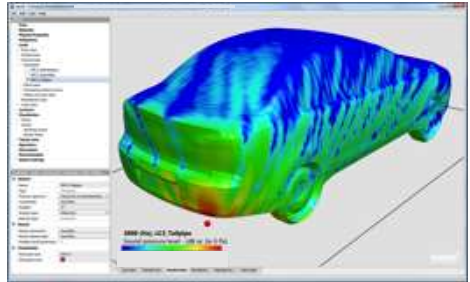
Multibody simulation

CST



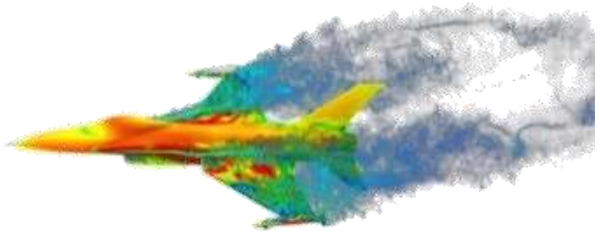
Electromagnetic & Electronic Simulation

Wave6



Vibro-acoustic Simulation

Xflow/ /Exa



Lattice Boltzmann CFD



- Orientuota į inžinierius
- Lokalūs skaičiavimai
- Automatinis BE tinklelis (TETRA)
- Klasikiniai medžiagų mechanikos stiprumo uždaviniai
- Inžineriniai darbą spartinantis įrankiai (varžtai, nuot.apkrovos)



- Inžinieriams ir analizės specialistams
- Duomenų saugojimas debesijoje
- Integruotas į PDM/PLM procesus
- Lokalūs išplečiami skaičiavimai
- Vienas duomenų modelis visiems skaičiavimo tipams

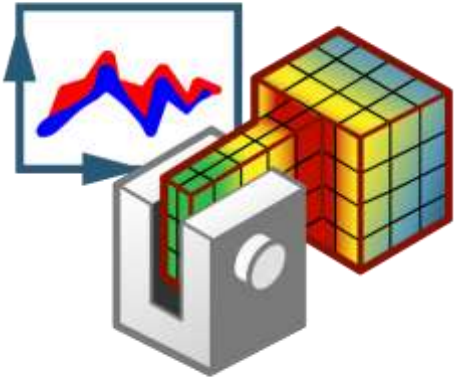


- Orientuota į analizės specialistus
- Lokalūs išplečiami skaičiavimai
- Automatinis ir rankomis sukuriamas BE tinklelis (HEX)
- Kompozitai
- Suirimo mechanika / detonacijos
- Integruotas Eulerio-Lagranžo metodas
- Diskrečiųjų elementų metodas



- ABAQUS skaičiavimo algoritmai ir sprendikliai
- Skaičiavimai debesijoje, išplečiami iki 144 branduolių panaudojimą

3DEXPERIENCEWORKS SIMULIA SPRENDIMAI



STRUCTURAL
MECHANICS &
DURABILITY ENGINEER



ELECTROMAGNETICS
ENGINEER



FLUIDS DYNAMICS
ENGINEER



PLASTIC INJECTION
ENGINEER