Project Name	Carbon Footprint Visualization
Production system (if any)	...
Test system (if any)	...
GitHub repository	https://github.com/amosproj/amos-ss2021-carbon-footprint
GitHub kanban board (project)	https://github.com/amosproj/amos-ss2021-carbon-footprint/projects/1
Team T-shirt (black)	https://www.shirtinator.de/loadBasket/gawEFWZioZC
Zoom-Meeting	https://fau.zoom.us/j/64835513630

Last Name	First Name	GitHub User Name	Email Address
Anand	Mani	manifau	mani.anand@fau.de
Dürsch	Martin	MartinDuersch	martin.duersch@fau.de
Gandomkar	Parham	gandompm	parham.gandomkar@fau.de
Oelhaf	Julian	ScoutAtlas	julian.oelhaf@fau.de
Olyaee	Ehsan	Olyaee	ehsan.olyaee@fau.de
Scheiderer	Michael	MichaelScheiderer	michael.scheiderer@fau.de
Toroslu	Irem	IremToroslu	irem.toroslu@fau.de
Varanasi	Sai Varun	SaiVarunVaranasi	varun.sai.varanasi@fau.de
Wagner	Martin	Waldleufer	martin.wagner@fau.de

Goals	Experience Agile/Scrum
	Achieve our defined project mission
	Develop software that is able to visualize the carbon footprint of some machinery / production environments (scenario) under different circumstances (calculations)
	Design a valuable product with functions that the user really uses
Meeting norms	Inform the others if you can't attend
	Everyone shows up on-time
	We do not interrupt each other
	Attend all of the meetings
Working norms	Everyone contributes regularly
	We value quality over quantity
	Lines of comments (well documented) > Lines of Code
	Recommendation: Visual Studio Code
	Testing/Verification (Unit Testing)
Coordination norms	Scrum tools
	People choose what they want to work on, unwanted work gets split up over all team members equally. (managed by Scrum Master)
	Put everything non code related to the google drive folder
	Every job has a responsible person
Communication norms	Email for important things
	GitHub for Code related things
	Slack for organizational and product related discussions
	Protocol of the Meeting (in google drive, like a summary) - writing meeting minutes - documenting decisions
	We check Email at least once a workday
Consideration norms	All important decisions made in the team meeting
	Possibility of a emergency meeting with at least 1 PO, 2 SD
	We discuss disagreement openly
	We vote for a final resolution
Cont. improvement norms	Using the kanban system to track the teams progress
	Using the continuous demo releases to track the improvement of our system
Rewards	To celebrate the achievement of a goal we will meet for a beer (or maybe a cocktail) if possible in person otherwise online
Sanctions	You must raise clear violations of the team contract
	We apologize by writing a 4 line poem about how one will improve themself (and the meaning of life) and share it with the team!

#	Meeting Day	Comment	Coach	Product Owner	Software Developer	Scrum Master	Release Manager
1	2021-04-14		Yes	Olyaee, Scheiderer	Everyone else	(Varanasi)	(Anand)
2	2021-04-21		Yes	Olyaee, Scheiderer	Everyone else	Varanasi	Dürsch
3	2021-04-28			Olyaee	Everyone else	Scheiderer	Gandomkar
4	2021-05-05		Yes	Olyaee	Everyone else	Scheiderer	Oelhaf
5	2021-05-12			Scheiderer	Everyone else	Olyaee	Toroslu
6	2021-05-19		Yes	Scheiderer	Everyone else	Olyaee	Varanasi
7	2021-05-26	Mid-term due	Yes	Olyaee, Scheiderer	Everyone else	Wagner	Wagner
8	2021-06-02			Olyaee, Scheiderer	Everyone else	Wagner	Anand
9	2021-06-09			Olyaee, Scheiderer	Everyone else	Anand	Dürsch
10	2021-06-16		Yes	Olyaee, Scheiderer	Everyone else	Anand	Gandomkar
11	2021-06-23			Olyaee, Scheiderer	Everyone else	Gandomkar	Oelhaf
12	2021-06-30			Olyaee, Scheiderer	Everyone else	Gandomkar	Toroslu
13	2021-07-07		Yes	Olyaee, Scheiderer	Everyone else	Toroslu	Varanasi
14	2021-07-14	Demo day!		Olyaee, Scheiderer	Everyone else	Toroslu	Wagner
15	2021-07-21	Retrospective		Olyaee, Scheiderer	Everyone else	N/A	N/A
						(Assignments refer to start date / start sprint)	

Product Vision	Project Mission
The vision of this project is to create a (web) application to visualize, compare and analyze the impacts such as global warming, ozone layer depletion, acidification, etc that come from the production, use, and end-of-life of a product or service. We aim to set the highest standards for environmental protection in the industry and urge business partners to share this ambition and cooperate with both customers and suppliers to strive for continual improvement. We calculate the carbon footprint and help our customers to understand the impacts and risks associated with it and offer alternatives. To present those numbers effectively, they need to be visualized. This is where the "Carbon Footprint Visualization" comes in. Salesman can use the visualization to directly show the customers the impact a product has on the environment and how the impact could be reduced with another version. For example, we could possibly convince customers to invest in something that reduces CO2 emissions, which maybe is more expensive now but will payout in the long run by slowing down global warming.	We pursue ambitious goals with regard to resource efficiency and environmental protection, and hence create long-term value by treating people and the environment in a responsible manner. The main objective of our environmental work is to prevent pollution and continually reduce the environmental impact of our activities in order to protect the environment for future generations. To meet these objectives, we will maintain and further develop a culture in which reducing the environmental impact over each product’s life cycle is an integral part of our daily work practices.

Term	Definition
Project	Synonym for projects created by Siemens Energy experts at SimaPro
Product	Synonym for the products available in Siemens Energy projects. For example, gas turbine or transformer
Model	Synonym for available models of a product. For example, a 3-phase GSU transformer. All the models are modeled by SimaPro. Detailed information of a model could be found at canvas section in SimaPro
Baseline scenario	Baseline scenario of a product with a default value for its variables
Scenario	The scenario created by changing default values of a model
Canvas	A window in which a scenario of a product is visualized
SimaPro Canvas	A canvas in which a SimaPro model is visualized. its different than the canvas in Carbon Footprint project

#	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn- Down
2	**Basic User Interface**						**5**	
		Deliver first increment with basic User Interface Design						
			Basic UI Design			5		
3	**Visualization & Backend**				**10**		**13**	
		Deliver increment with initial backend setup and basic navigation						
			React.js initial setup	5		8		
			Navigate through different Categories and display the corresponding Products (and their Models) as a List (No real Data, only dummy list)	5		5		
4	**SimaPro API & User Interface**				**29**		**29**	
		Deliver increment with improved navigation, initial canvas and visualization						
			Receive data from SimaPro API	8		8		
			See the overview of products in a grid	8		8		
			Select a model and set canvas up	5		5		
			Visualize a scenario	8		8		
5	**Restructure & User Interface**							
		Deliver Increment with uniform Interface and first comparison method			**12**			
			Restructure GitHub branches and folder structure	2				
			Uniform User Interface	5				
			Add second canvas	5				
6	**Real Data & Report**							
		Deliver Increment with real data, export function and compatibility to different screen sizes						
			Integrate data from SimaPro into the User Interface					
			Export graphs as PDF					
			Compatibility with different screen sizes (especially mobile devices)					

Sprint	Status	Source	Impediment	Resolution
4	Resolved		Connection/motivation from the industry partner with SDs missing	Industry Partners join next team meeting (05-12)
4	In-work		Unclear requirements from the industry partners (technologies)	Weekly meetings with their SDs from India
5	In-work		Too many SDs assigned for the same tasks	Improve communication (One person responsible for issue, you need to communicate with this person if you want to work on the issue)
5	In-work		Commits are too large	Split large commits in few smaller commits
5	In-work		Libraries not been added to BOM and in the Readme file	Add to team contract

#	Theme	Goal	Feature Name	Est. Size (Feature)	Est. Size (Sprint)	Real Size (Feature)	Real Size (Sprint)	Burn-Down

#	Feature Definition of Done	Sprint Release Definition of Done	Project Release Definition of Done
	Documentation for that feature is done	No severe bugs open	No severe bugs open
	Feature branch has been merged	Implemented features are distributed to every branch	User manual is available
	Code has been reviewed by at least one other team member	100% unit tests passed	Documentation has been peer reviewed
	Unit tests are written	Code is in a clean state	On the final project release: additional documentation has been added to unfinished features
		Prettier extension is applied to all code files	

Type	Link / reference

#	Context	Name	Version	License	Comment
1	Frontend Framework	React.js	16.13.1	MIT	
2	Frontend Framework	react-admin-dashboard	2.0.0	MIT	https://github.com/llorentegerman/react-admin-dashboard/tree/v2-0-0
3	Frontend Framework	react-hook-form	7.5.2	MIT	https://www.npmjs.com/package/react-hook-form
4	Frontend Framework	react-jss	10.6.0	MIT	https://www.npmjs.com/package/react-jss
5	Frontend Framework	react-router-dom	5.2.0	MIT	https://www.npmjs.com/package/react-router-dom
6	Frontend Framework	simple-flexbox	2.3.2	MIT	https://www.npmjs.com/package/simple-flexbox
7	Frontend Framework	react-grid-system	7.1.2	MIT	https://www.npmjs.com/package/react-grid-system
8	Frontend Framework	react-apexcharts	1.3.9	MIT	https://www.npmjs.com/package/react-apexcharts
9	Backend: Framework	.NET 5	5.0.0	MIT	
10	Backend: Package	AspNetCore.Proxy	4.2.0	MIT	https://github.com/twitchax/AspNetCore.Proxy
11	Backend: Package	Newtonsoft.Json	13.0.1	MIT	
12	Frontend Framework	w3.css	4.15.0	MIT	https://www.w3schools.com/w3css/
13	Static Code analysis	CodeQL		MIT	Github tool

Last Name	First Name	Value					
Anand	**Mani**	5		**5.00**	**OK**		
Gandomkar	**Parham**	5					
Oelhaf	**Julian**	5					
Toroslu	**Irem**	5					
Varanasi	**Sai Varun**	5		0	No effort		
Wagner	**Martin**	5		1	Minimal effort		
Dürsch	**Martin**	5		2	Small effort		
				3	Medium effort		
				5	Large effort		
				8	Very large effort		
				13	Too large effort		