WORK SMARTER & SUSTAINABLY

VITESCO TECHNOLOGIES HACKABURG 2023
CHALLENGE “REDUCED FOOTPRINT”

The pandemic has drastically changed the way we work. Working from home has granted us more flexibility with our office hours and commutes. On the one hand, this means that many of us are driving to the office alone. On the other, the amount of office workplaces and parking spaces offered by companies decreased due to fewer people attending the office regularly. These two factors often combine to create peak times when everyone arrives at the same time, leading to a lack of parking and office spaces.

To optimize the entire arrival process and make it more sustainable, we need to find a technical solution that utilizes cloud services. This should help to minimize the number of lone drivers travelling to the office each day, thus reducing unnecessary resource consumption and pollution.

Your Tasks

You will receive a data package with fictitious employee data and an AWS account that you can activate at the Vitesco Technologies stand in the foyer. Your task is to find a creative technical solution for the problem described above and demonstrate its value, e.g. in terms of saved CO2 emissions. If it’s your first time working with AWS, don’t worry - talk to us and make sure to stop by for the AWS workshop on Friday from 2-3 pm.

Bewertungskriterien

We will evaluate:

> Feasibility, practicality, and resource management of your prototype and designed architecture,
> As well as your code, code, code!

Tools

To be able to solve this challenge, we will give you the following tools:

> 1x AWS account per team (to be picked up and activated at the Vitesco Technologies stand)
> Workshop Friday 2-3 pm for using AWS services (relevant to the task)
> A ton of demo data

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Question #1
A: Environmentally Friendly Transfer

> A0: Imagine a business park with many different companies. Their employees might not only be working at the same business park but also living in the same area - but they don't know each other. How could these employees come together and travel to work together?
> A1: There are always peak times because many employees travel to work at the same time. How can these peak times be identified and maybe avoided?
> A2: Many people drive to work with their car out of convenience. How can these people be made aware of alternative transportation options?

Question #2
B: Modern Work Environments

> B0: Imagine – you just arrived at work, but all parking lots are already taking. How can I know in advance if the office is fully booked today or where I would find the last available parking space?
> B1: Based on historical data, can I find the best time slots to avoid peak times or to find a ride to the office or back home?
> B2: How can we create a healthy competition with gamification so that employees are constantly motivated to make their journey more sustainable and yet are often back in the office?

YOUR VITESCO TECHNOLOGIES TEAM