SEAI RD&D 2019

SMARTeBuses

Web-based Platform for Project Dissemination

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Authors:	Dr. Alejandro Arbelaez, University College Cork
Peer review:	Dr. Laura Climent, University College Cork

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List of Acronyms

SMARTeBuses SMART electric Buses
SEAI Sustainable Energy Authority of Ireland
WP Work Package
CP Constraint Programming
MIP Mixed Integer Programming
ML Machine Learning

1 Introduction

This document corresponds to deliverable WP6-D1 *"Web-based platform for project dissemination"* of the SMART electric Buses (SMARTeBuses) project, funded by the Sustainable Energy Authority of Ireland (SEAI) RD&D programe. This project is classified as Non-economic Public Good Research under the EU State Aid regulations and will exploit, combine and improve cutting-edge AI technologies (Constraint Programming (CP), Mixed Integer Programming (MIP), Metaheuristics and their combination with Machine Learning (ML)) to develop and implement optimization models for the operation of electric buses in Ireland with operational constraints (e.g., limited driving range and battery charging/discharging time).

The dissemination and communication activities apply to all relevant communities and are intended to ensure awareness of the project. This deliverable describes our web-based platforms to disseminate the results of the of the project. In particular, we will use the following tools to maximise the online presence of SMARTeBuses.

- GitHub
- Facebook
- Website

Furthermore, we also plan to actively participate in national and international conferences and workshops to disseminate the main findings of the project.

2 Online Presence

The online presence established during the first months of the project include a project website, a Facebook page, and a GitHub account. These online platforms will allow proper dissemination and communication channels to share the findings of the project to relevant communities. Our dissemination material includes: project deliverables, research papers, and presentations at international conferences and workshops.

The SMARTeBuses online presence will constantly be updated by the project coordinator and Work Package (WP) leaders including special events and relevant news in a timely manner.

2.1 Logo

Figure 2.1 displays the logo of the project. This logo has been designed by the Coordinator and approved by the WP leaders. This logo will be the visual identity of the project and will appear in the website, social media, and project-related presentations.

Figure 2.1: SMARTeBuses logo.

2.2 Project Website

The official website of SMARTeBuses can be accessed at https://smartebuses.github.io/web/ and contains the following structure:

- Home
- Documents
- News
- Members
- Github

Complete details about the project website are available at [1] with the description of the first milestone of the project.

2.3 Social Media

Facebook is one of the most popular social media platforms available today and allows a straightforward interaction with relevant users from different communities. Therefore, we created a dedicated Facebook page to increase awareness of the project.

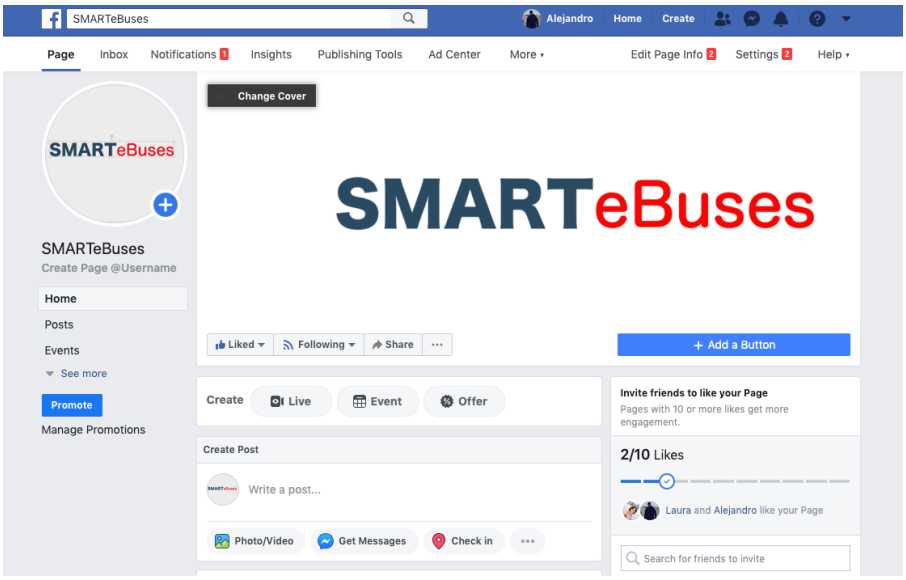

Figure 2.2: SMARTeBuses Facebook Page.

The Facebook page is available at http://www.facebook.com/SMARTeBuses. In this context, Figure 2.2 displays a screenshot of the Page, Facebook users can follow the project via the Like and Follow buttons. This page will help us to build a community around SMARTeBuses and will gather both academics and non-academics, this Facebook interaction will be a useful tool in a number of ways, including:

- Facebook users can provide feedback about the project;
- to share the main findings of the project with our SMARTeBuses community;
- to post useful information about electric vehicles in Ireland.

2.4 Github

GitHub is a popular web-based repository for storage, project management, and version control. A repository typically contains folders, files, videos, and other relevant data. At the early stages of the project, we created a Github account for SMARTeBuses and will use this account to create private and public repositories. Public repositories will let interested users to navigate through the repository to easily access the results of the project and only WP contributors will have proper credentials to view and contribute. On other other hand, private repositories will only be available for the project team and will store ongoing work relevant to the WP of the project.

The current structure of the project includes the following repositories.

Public repositories:

- web: intended to store the source of the project;
- deliverables: intended store the final version of the public deliverables;
- papers: intended to store pre-printed version of the research papers derived from the project as well as the source code for reproducibility of the results.

Private repositories:

- literature: intended to store related research papers relevant to SMARTeBuses;
- papers: intended to store ongoing work related to future research papers;
- data: intended to store post-proceded data relevant to the paper.

2.4.1 GitHub Access

Figure 2.3 displays the main page of the GitHub account. Interested users can access our project repositories via the Github website and Git.

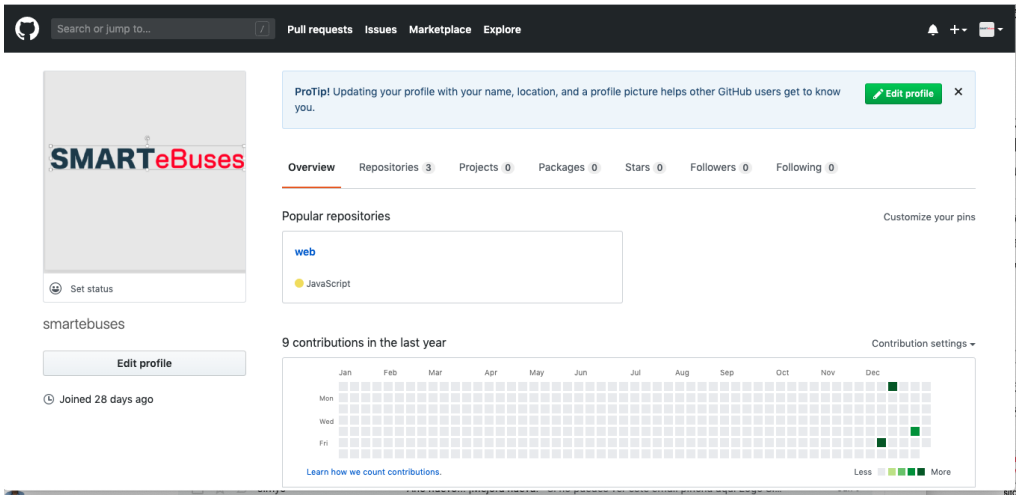

Figure 2.3: GitHub account

Anonymous users can download the most recent content available in public repositories by pressing the download zip buttom available under the Clone or Download drop. Alternatively, advanced users can use Git to get the content of the public repositories via the following command line:

git clone https://github.com/smartebuses/[repository-name].git

3 Dissemination Documents and Activities

The SMARTeBuses research team will take the appropriate measures so the outcome of the project is easily *discoverable*, *accessible*, *intelligible*, and *usable* beyond the original purpose of this project and interoperable to specify quality standards. In this context, all findings derived from the project will be made available via our wide variety of communication channels.

SMARTeBuses will disseminate the outcome of the project via open access publications and presentations at relevant national and international conferences. SMARTeBuses aims at publishing several research papers in various venues, i.e., journals, conferences, and international workshops. These publications will be aligned with the goals of the project. Pre-selected scientific journals, conferences, and international workshops include:

- Journal of Heuristics;
- Association for the Advancement of Artificial Intelligence (AAAI);
- Conference on machine Learning, Optimization and Data science (LOD) ;
- Symposium on Combinatorial Search (SOCS);
- International Conference on Principles and Practice of Constraint Programming (CP);
- International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research (CPAIOR);
- Irish Conference on Artificial Intelligence and Cognitive Science (AICS);
- etc

Furthermore, we plan to follow one of the two to following alternatives for peer-reviewed publications:

- *Open access publishing or Gold open access*: this is an author-pay approach, the author institution, or funding agency pays a charge to ensure that the final version of a paper is made openly available to the public.
- *Self-archiving or Green open access*: this alternative allows the authors to made their papers accessible by depositing a copy of their papers into an external repository, e.g., website, arXiv, and HAL after the relevant embargo period.

Any dissemination and communication activity derived from the project, i.e., deliverable, publication, and material, needs to be approved by the project coordinator or the respective WP leader. Additionally, dissemination documents must acknowledge the funding program as follows:

"This project has received funding from the SEAI RD&D Programme under grant award No. 19/RDD/519".

3.1 Videos

During the project some short videos will be produced to demonstrate and showcase the outcome of the project. These videos will feature the main components of selected deliverables. The structure of the videos will be defined at a later stage in order to demonstrate the functionally of the software.

3.2 Dissemination activities after the project ends

The online presence of SMARTeBuses will be maintained for a reasonable amount of time after the termination of the project. The Facebook page and the GitHub accounts will not be closed and our community will be able to access the results of the project. This will increase the impact of the project beyond the end of the project.

Bibliography

[1] Alejandro Arbelaez, “Project Website,” March 2020, SMARTeBuses Project Milestone WP6-M1.

SMARTeBuses

SMART electric Buses

March 10, 2020