DMP du projet "Solutions technologiques de l'analyse des apprentissages (Learning Analtyics - LA) pour mieux comprendre et soutenir les stratégies d'apprentissage autorégulé"

Plan de gestion de données créé à l'aide de DMP OPIDoR, basé sur le modèle "Science Europe : modèle structuré" fourni par Science Europe.

Renseignements sur le plan

Titre du plan	DMP du projet "Solutions technologiques de l'analyse des apprentissages (Learning Analtyics - LA) pour mieux comprendre et soutenir les stratégies d'apprentissage autorégulé"
Livrable	D1. DMP 6 Month - Plan de gestion des données à 6 mois
Version	Version intermédiaire
Objet/périmètre du plan	D1.1. and D1.2. present the Analytical Framework including (1) the results of the literature review on theoretical SRL methods taken as a reference for the project, and (2) the instruments and analytical methods to be used in the experimental scenarios. The DMP is part of how all the data collected trough the project will be treated. And the result of two experimental settings (D3.1).
Domaines de recherche (selon classification de l'OCDE)	Computer and information sciences
Langue	eng
Date de création	2022-09-28
Date de dernière modification	2022-10-07
Identifiant	https://www.irit.fr/laser/
Type d'identifiant	url

Licence		
	Nom	Creative Commons Attribution 4.0 International
	URL	http://spdx.org/licenses/CC-BY-4.0.json

Documents (publications, rapports, brevets, plan expérimental....), sites web associés

- Website of the Project : https://www.irit.fr/laser/
- OSF-Data Sources & Data Analyses : https://osf.io/s86au/

Renseignements sur le projet

Titre du projet	Solutions technologiques de l'analyse des apprentissages (Learning Analtyics - LA) pour mieux comprendre et soutenir les stratégies d'apprentissage autorégulé
Acronyme	LASER
Résumé	LASER (Learning Analytics Solution for Srl in BL EnviRonments) vise à proposer et évaluer des techniques d'analyse des apprentissages (Learning Analtyics - LA) pour mieux comprendre et soutenir les stratégies d'apprentissage autorégulées des étudiants, et leur relation avec leurs performances en situation d'apprentissage hybride (SAH). LASER s'appuiera sur la recherche théorique en éducation dans des contextes hybrides et des approches de fouilles de données, et sera expérimenté en contextes d'apprentissage réel. LASER contribuera aux sciences de l'éducation et aux LA en produisant de nouvelles données empiriques sur les stratégies développées par les étudiants en SAH, et de nouvelles techniques analytiques avancées. LASER contribuera donc à l'opérationnalisation des stratégies éducatives de l'Enseignement Supérieur en fournissant des recommandations pour déployer des SAH à une large échelle et faire face à la crise du COVID-19 et la transformation des IUTs en trois ans.

Sources de financement

- Agence Nationale de la Recherche : ANR-20-CE38-0004

Date de début	2021-04-01
Date de fin	2025-03-31

Partenaires

- Université Paul Valéry Montpelilier 3
- Pontificia Universidad Católica de Chile / Engineering School
- Universidad de Cuenca / Universidad de Cuenca
- Cornell University / Department of Information Science

Produits de recherche :

1. NoteMyProgress Moodle Plugin (https://gitlab.com/laser-anr/notemyprogress-plug-in)
2. D1.1.Data & Analytical framework (https://osf.io/n9qdg) (Texte)
3. D2.1.Design-Based Research Process for the design of NoteMyProgress (NMP) (Jeu de données)
4. D3.1.Experimental Scenario 1: Evaluating effects of NMP with Students (Jeu de données)

Contributeurs

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Pérez-Sanagustín Mar - https://orcid.org/0000-0001-9854-9963	IRIT, Université de Toulouse, CNRS, Toulouse INP, UT3, Toulouse, France - http://www.irit.fr	• Personne contact pour les données (NMP Moodle Plugin, Data&AnalysisFW, Exp1_RBD_NMP, Exp1_NMPEffectStud) • Responsable de la conservation à long terme des données (NMP Moodle Plugin, Data&AnalysisFW) • Responsable de la documentation des données (NMP Moodle Plugin, Data&AnalysisFW, Exp1_RBD_NMP, Exp1_NMPEffectStud) • Responsable de la production ou de la collecte des données (Data&AnalysisFW, NMP Moodle Plugin, Exp1_RBD_NMP, Exp1_NMPEffectStud) • Responsable de la protection des données (Exp1_RBD_NMP) • Responsable de la qualité des données (NMP Moodle Plugin, Data&AnalysisFW) • Responsable des questions éthiques (Exp1_RBD_NMP) • Responsable du dépôt et de la diffusion des données (NMP Moodle Plugin, Exp1_RBD_NMP) • Responsable du plan de gestion de données • Responsable du stockage des données (NMP Moodle Plugin, Data&AnalysisFW) • Responsable du traitement et de l'analyse des données (NMP Moodle Plugin, Data&AnalysisFW, Exp1_RBD_NMP) • Responsable juridique (Exp1_RBD_NMP, Exp1_NMPEffectStud)
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DMP du projet "Solutions technologiques de l'analyse des apprentissages (Learning Analtyics - LA) pour mieux comprendre et soutenir les stratégies d'apprentissage autorégulé"

Description des données et collecte ou réutilisation de données existantes

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NoteMyProgress Moodle Plugin (https://gitlab.com/laser-anr/notemyprogress-plug-in)

Description générale du produit de recherche

Nom	NoteMyProgress Moodle Plugin (https://gitlab.com/laser-anr/notemyprogress-plug-in)
Description	This is a software produced to support students' Self-regulated Learning (SRL) in blended learning (BL) situations. The tool was designed as a plugin for Moodle and it is directly embedded in the Moodle Platform. The NMP Moodle provides teachers and students with dashboards for supporting the following SRL strategies in BL contexts: Goal Setting, Strategic Planning, Time management, Self-evaluation, and Monitoring.
Workpackage	WP2
Mots clés (texte libre)	Plugin Moodle, Self-Regulated Learning, Learning Analytics, Dashboards, Technology-Enhanced Leanring
Langue	fra
Date de publication	2922-09-08
Type d'identifiant	url
Contient des données personnelles ?	oui
Contient des données sensibles ?	oui
Prend en compte des aspects éthiques ?	oui

Est-ce que des données existantes seront réutilisées ?

Justification	We used a prior code created in LALA: LALA project.
Données réutilisées	LALA NMP Moodle Plugin : This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version. This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details. You should have received a copy of the GNU General Public License along with this program. If not, see http://www.gnu.org/licenses/.

Comment seront produites/collectées les nouvelles données ?

Nom de la méthode	Design-Based Research
Description	For updating the plugin according to the LASER Project needs, we followed the Design Based Research (DBR) methodological approach. This approach mixes empirical research on education with theories oriented towards the design of learning environments, from the analysis and design to the implementation and evaluation. To apply the DBR methodological approach, we used the Interactive Learning Design (ILD) framework. The ILD framework organises the research process into four phases: (1) Informed exploration, in which we studied the needs, available theories and audience of the tool; (2) Enactment, phase in which the design of a tool is proposed and implemented; (3) Evaluation of local impact, which aims at evaluating the impact of the intervention at a local level, focusing on particular research questions for that context; and (4) Evaluation of broader impact, which considers the analysis of the technological intervention into a wider audience. **REFERENCES** 13. Reimann,P.:Design-based research. Meth.Choice and Design. Springer, 37-50,(2011). 14.Bannan-Ritland,B.:The role of design in research: The integrative learning design framework. Educational researcher, 32(1), 21-24, (2003)
Nature des données	Données expérimentales
Références associées	NoteMyProgress Design & Evaluation 1 - PROTOCOL : https://osf.io/qpt3k

D1.1.Data & Analytical framework (https://osf.io/n9qdg)

Description générale du produit de recherche

Nom	D1.1.Data & Analytical framework (https://osf.io/n9qdg)
Description	Report on the theoretical SRL models, instruments and analytical methods employed in the experimental scenarios.
Type	Texte
Workpackage	WP1
Mots clés (texte libre)	Analytical Framework, Data gathering techniques
Langue	eng
Date de publication	2022-10-05
Identifiant pérenne	https://osf.io/n9qdg
Type d'identifiant	url
Contient des données personnelles ?	non
Contient des données sensibles ?	non
Prend en compte des aspects éthiques ?	oui

Est-ce que des données existantes seront réutilisées ?

Justification	All the data instruments and gathering techniques described in the D1.1. will be used along the project for the experimental settings.
Données réutilisées	• Data analysis framework : https://osf.io/n9qdg

Comment seront produites/collectées les nouvelles données ?

Nom de la méthode	Literature review
Description	This initial Analytical Data framework will be updated in a second after conducting the different experiments programmed in the project. For that, will follow a literature review methodology for understanding what the new analytical methods and data gathering techniques are.

D2.1.Design-Based Research Process for the design of NoteMyProgress (NMP)

Description générale du produit de recherche

Nom	D2.1.Design-Based Research Process for the design of NoteMyProgress (NMP)
Description	Report related with WP2. Design and evaluation process of the NMP Moodle tool. Source code and a report on the usability tests of the first prototype of the tool. This also includes the data set collected during the evaluation process.
Type	Jeu de données
Workpackage	WP2
Mots clés (texte libre)	Evaluation, Plugin Moodle, Design-based research
Langue	eng
Date de publication	2022-10-05
Identifiant pérenne	https://osf.io/6a5rh
Type d'identifiant	url
Contient des données personnelles ?	oui
Contient des données sensibles ?	oui
Prend en compte des aspects éthiques ?	oui

Est-ce que des données existantes seront réutilisées ?

Justification	The data collected in this deliverable is anonymized could be used in future scientific analysis involving the evaluation of the future versions of the NMP Moodle tool. In addition the instruments designed in this evaluation could be potentially used in future experimental scenarios of D3.2 and will be reported in D2.2.

Comment seront produites/collectées les nouvelles données ?

Nom de la méthode	Evaluation in real or synthetic scenarios
Description	New data could be collected using the instruments designed in this first evaluation. Usually, the instruments will be used in actual experimental settings with students and teachers as well as in synthetic experiments with teachers in Workshops related with the project. All the data collected will be described in D2.2 and D3.2.
	The protocols for the data collection of this deliverable D2.1 are described here: https://osf.io/qpt3k
Nature des données	Données expérimentales
Références associées	• D2.1. NoteMyProgress Moodle - NMP Moodle Design and 1st Evaluation - PROTOCOL : https://osf.io/qpt3k

D3.1.Experimental Scenario 1: Evaluating effects of NMP with Students

Description générale du produit de recherche

Nom	D3.1.Experimental Scenario 1: Evaluating effects of NMP with Students
Description	Report on the experimental design including the protocols, instruments, data gathering techniques and main results of scenario 1
Type	Jeu de données
Workpackage	WP3
Mots clés (texte libre)	Learning Analytics, Experimental Scenario, Exploratory study
Langue	eng
Date de publication	2022-10-05
Identifiant pérenne	https://osf.io/6g84m
Type d'identifiant	url
Contient des données personnelles ?	oui
Contient des données sensibles ?	oui
Prend en compte des aspects éthiques ?	oui

Est-ce que des données existantes seront réutilisées ?	
Justification	The data produced in D3.1 could be used in further scientific analysis related with D2.2. and D3.2.

Comment seront produites/collectées les nouvelles données ?

Nom de la méthode	Exploratory study
Description	Exploratory study are the recommended methodological approach for studying a phenomenon when there is insufficient prior research to establish hypotheses.
	Deliverable D3.1 includes the experimental protocol and main results and analysis for the first evaluation Scenario 1 of the project. It is available here: https://osf.io/6g84m
	All the data collected and analytical methods are also available in the supplementary data associated to the paper:
	Villalobos, E., Pérez-Sanagustin, M., Sanza, C., Tricot, A., & Broisin, J. (2022). Supporting Self-regulated Learning in BL: Exploring Learners' Tactics and Strategies. In *European Conference on Technology Enhanced Learning* (pp. 407-420). Springer, Cham.
	The link to the supplementary data is available here: https://osf.io/xgav4/
Nature des données	Données expérimentales
Références associées	• Data & Analytical Methods : https://osf.io/xgav4/ • Scientific paper "Supporting Self-regulated Learning in BL: Exploring Learners' Tactics and Strategies" : https://hal-cnam.archives-ouvertes.fr/UT1-CAPITOLE/hal-03784148v1 • Evaluation Protocol : https://osf.io/2wzm4

Documentation et qualité des données

NoteMyProgress Moodle Plugin (https://gitlab.com/laser-anr/notemyprogress-plug-in)

Quelles métadonnées et quelle documentation (par exemple mode d'organisation des données) accompagneront les données ?

Description	The data source of the code to be reused is available in Gitlab under the SOFTWARE EVALUATION LICENSE IRIT computer science research laboratory, Toulouse, France: https://gitlab.com/laser-anr/notemyprogress-plug-in. Any researcher can access, download and install the tool for evaluation purposes. Also, researchers can update the code using as a basis the project main branch.
	In addition to the source code, we generated a set of administration and user manuals for facilitating the reuse of the tool. All the manuals are available in the website of the project: https://www.irit.fr/laser/tools/
Références associées	• Source Code : https://gitlab.com/laser-anr/notemyprogress-plug-in • Administrators and User Manuals : https://www.irit.fr/laser/tools/
Code langue des métadonnées	fra
Logiciel de documentation	Gitlab

Quelles seront les méthodes utilisées pour assurer la qualité scientifique des données ?

Description	The quality of the code will be evaluated in the different instances of the LASER project, through pilot evaluations. Also with workshops with teachers in which the tool will be presented and tested. Finally, the evaluation results of the tool and of the design process will be published in scientific venues with peer-review.
	So far, you can find the evaluation protocol and the results of the first evaluation in the deliverable of the project "D2.1. NoteMyProgress Moodle - NMP Moodle Design and 1st Evaluation", accessible in the Website.
Références associées	• D2.1. NoteMyProgress Moodle - NMP Moodle Design and 1st Evaluation : https://www.irit.fr/laser/deliverables/ • Scientific Publication NMP Moodle : https://link.springer.com/chapter/10.1007/978-3-031-16290-9_24

D1.1.Data & Analytical framework (https://osf.io/n9qdg)

Quelles métadonnées et quelle documentation (par exemple mode d'organisation des données) accompagneront les données ?

Description
All the data about the instruments and analytical methods are available through links within the deliverable D1.1. The following table summarises all the data gathering techniques defined as well as the links.

Data Collection Instrument Code	Description	References
[Informed-Consent]	Informed consent used as a basis in all questionnaires used during the project.	· ANNEX 1: Inform consent (French Version)
[PreSRL-Survey]	The OSLQ (Online Self-Regulated learning questionnaire) proposed by Barnard et al, (2009). It has been developed for measuring self-regulation in online environments and has been validated both in online and hybrid (or blended) courses. It contains 24 questions with a 5-point likert response format rom strongly agree (5) to strongly disagree (1). It includes questions organized into 6 subscales, each corresponding to an SRL strategy: (1) Evironment structuring; (2) Goal Setting; (3) Time Management; (4) Help Seeking; (5) Task Strategies; (6) Self-Evaluation.	· https://osf.io/rcxu4 (English Version) · ANNEX 2: SRL Profile (French Version)
[SUS-Teacher]	Adaptation of the SUS Questionnaire for evaluating NMP functionalities from the teachers' perspective	· https://osf.io/s3mpk/
[SUS-Student]	Adaptation of the SUS Questionnaire for evaluating NMP functionalities from the students' perspective	· https://osf.io/srtmg/ (Spanish version) · ANNEX 4: Usability Survey SUS
[Sense-Making-Students]	This questionnaire was designed combining questionnaires defined in prior research to evaluate Learning Analytics Dashboards: the Evaluation Framework of Quality Indicators for Learning Analytics (EFLA) [18] and the work by [19], which studies how learners' goals and self-regulated learning skills influence dashboards sense-making as well as the notion of transparency, not included in EFLA. The result was a questionnaire with 17 questions related with: (1) Transparency on the data collection; (2) Transparency of Dashboard Design and Explain ability; (3) Data & Reference frames; (4) Impact for learning/teaching and (5) Support for action. You can see the references considered for each item in the supplementary material https://osf.io/rcjpw/.	· https://osf.io/rcjpw (English, French & Spanish versions)
[Moodle-Trace-Data]	Records of when students interacted with each element of the course in Moodle	· Sample data: https://osf.io/c59b4
[NMP-Trace-Data]	Records of when students interacted with elements on the NMP plug-in	· Sample data: https://osf.io/scdz9
[Course Metadata]	· In-person Class Schedule: Time table of the in-person class schedule for each student · Course Modalities: Information on how each week of the course is organized (online, in class or before/after class) · Average accumulated Grades: Average accumulated grades until the start of the course · Final grade: obtained by the students at the end of the course	· https://osf.io/xgav4/01_Data/01_RawData/Class_Data

Références associées
- D1.1.Data & Analytical framework (https://osf.io/n9qdg) : https://osf.io/n9qdg

Logiciel de documentation

Quelles seront les méthodes utilisées pour assurer la qualité scientifique des données ?

Description	The data gathering techniques and instruments will be employed in the different experimental settings of the project, which will be published in scientific venues (always peer-reviewed).

The data gathering techniques and instruments will be employed in the different experimental settings of the project, which will be published in scientific venues (always peer-reviewed).

So far, two publications have been already published, which have been using the instruments, data gathering techniques and analytical methods described in the D1.1. Analytical Framework.

- Villalobos, E., Pérez-Sanagustin, M., Sanza, C., Tricot, A., & Broisin, J. (2022). Supporting Self-regulated Learning in BL: Exploring Learners' Tactics and Strategies. In *European Conference on Technology Enhanced Learning* (pp. 407-420). Springer, Cham. (Link) – **BEST PAPER AWARD EC-TEL 2022**
- Pérez-Sanagustín, M., Pérez-Álvarez, R., Maldonado-Mahaud, J., Villalobos, E., & Sanza, C. (2022). Designing a moodle plugin for promoting learners' self-regulated learning in blended learning. In *European Conference on Technology Enhanced Learning* (pp. 324-339). Springer, Cham. (Link)

Références associées

- Paper 1. Supporting Self-regulated Learning in BL: Exploring Learners' Tactics and Strategies : 10.1007/978-3-031-16290-9_30
- Paper 2. Designing a Moodle Plugin for Promoting Learners' Self-regulated Learning in Blended Learning : https://doi.org/10.1007/978-3-031-16290-9_24

D2.1.Design-Based Research Process for the design of NoteMyProgress (NMP)

Quelles métadonnées et quelle documentation (par exemple mode d'organisation des données) accompagneront les données ?

Description

All the data collected, its purpose and indications about the data is reported in Deliverable D2.1 (https://osf.io/6a5rh) and also in all the supplementary data of the scientific publication:

Pérez-Sanagustín, M., Pérez-Álvarez, R., Maldonado-Mahaud, J., Villalobos, E., & Sanza, C. (2022). Designing a moodle plugin for promoting learners' self-regulated learning in blended learning. In *European Conference on Technology Enhanced Learning* (pp. 324-339). Springer, Cham.

Supplementary data for the publication available here: https://osf.io/w2p83/

Références associées

- Scientific paper "Designing a Moodle Plugin for Promoting Learners' Self-regulated Learning in Blended Learning" : https://osf.io/w2p83/
- D2.1 NoteMyProgress Moodle - NMP Moodle: Design and 1st Evaluation : https://osf.io/6a5rh

Code langue des métadonnées   eng

Logiciel de documentation

Quelles seront les méthodes utilisées pour assurer la qualité scientifique des données ?

D3.1.Experimental Scenario 1: Evaluating effects of NMP with Students

Quelles métadonnées et quelle documentation (par exemple mode d'organisation des données) accompagneront les données ?

Description			

All the data collection methods and data collected in D3.1 is available in the Deliverable D3.1 (https://osf.io/6g84m) and D1.1 (https://osf.io/n9qdg). This document include the definition of the data used and summarised in the following table:

Source Type	Source Name	Description
Trace data	Moodle	Records of when students interacted with each element of the course in Moodle
	NMP	Records of when students interacted with elements on the NMP plug-in
Questionnaire	MSQL	Questionnaire by Pintrich and Groot that measures different components of SRL
Metadata	In-Person Class Schedule	Time table of the in person class schedule for each student
	Course Modalities	Information on how each week of the course is organized
	Students' GPA	Average accumulated grades until the start of the course
	Students' Final Grades	Final grade obtained by the students

Références associées

- D3.1. Data and analytical methods : https://osf.io/xgav4/

Code langue des métadonnées   eng

Logiciel de documentation

Quelles seront les méthodes utilisées pour assurer la qualité scientifique des données ?

Exigences légales et éthiques, code de conduite

NoteMyProgress Moodle Plugin (https://gitlab.com/laser-anr/notemyprogress-plug-in)

Quelles sont les contraintes juridiques (sensibilité des données autres qu'à caractère personnel, confidentialité, ...) à prendre en compte pour le partage et le stockage des données ?

Description

In this project, we do not manage "sensible data" according to GDPR definitions. So, no special juridical constraints should be considered. In terms of confidentiality, all the data is used only by personal associated to the Université Toulouse Fédéral, assuring its correct and good ethical use. Moreover, given the level of sensitivity of the data, storing the data at the University servers is enough to assure all the confidentiality and security of the data.

Also, the data is always facilitated by the teachers participating in the experimental design and is always treated in a pseudo-anonymous way. In this way, we could only recover the identity of the participants if the teachers give us access to their databases. Only the data previously anonymised is shared.

Quels sont les aspects éthiques à prendre en compte lors de la collecte des données ?

Description	The data collected during this first part of the students was used to profile students' behaviour. To minimise the risks of using students' data for profiling we took two actions:

1. The analysis are always done once the course is finished, so that we cannot condition the students' behaviour with the profile.
2. We use only the data from those students accepting participating in the study through the informed consent.

In the future, we aim at using the data in real time so that we can profile the students in real time. To assure the correct use of the data, we are working on a simplified version of the Declaration of Personal Data processing with the IRIT Laboratory that will be evaluated by the UT3 Data Protection Officer (DPO), and will validate the data processing of the data in the future.

D1.1.Data & Analytical framework (https://osf.io/n9qdg)

Quelles sont les contraintes juridiques (sensibilité des données autres qu'à caractère personnel, confidentialité, ...) à prendre en compte pour le partage et le stockage des données ?

Description	Not concerned.

Quels sont les aspects éthiques à prendre en compte lors de la collecte des données ?

Description	Not concerned.

D2.1.Design-Based Research Process for the design of NoteMyProgress (NMP)

Quelles sont les contraintes juridiques (sensibilité des données autres qu'à caractère personnel, confidentialité, ...) à prendre en compte pour le partage et le stockage des données ?

Description	In this project, we do not manage "sensible data" according to GDPR definitions. So, no special juridical constraints should be considered. In terms of confidentiality, all the data is used only by personal associated to the Université Toulouse Fédéral, assuring its correct and good ethical use. Nevertheless, we are taking a set of actions to assure the confidentiality of the data:

1. We use informed consents to be completed by the participants, and only considering data from those accepting to share the data.
2. In the informed consents, we are going to indicate that they can not accept the use of their data, that they can gave access to their data and that they could ask for deleting the data whenever they want.
3. Also, the data is always facilitated by the teachers participating in the experimental design and is always treated in a pseudo-anonymous way. In this way, we could only recover the identity of the participants if the teachers give us access to their databases. Only the data previously anonymised is shared.
4. Only anonimyzed data will be shared to other researchers.
   The data could be only re-used by other researchers with a reference to the data collected. Also, all the data published in OFS is compliant with the GDPR principles:
   "OSF has taken several steps to comply with GDPR, including revising our **Terms Of Use** and **Privacy Policy**, ensuring GDPR compliance of third-party vendors and executing Data Processing Addendums with each, and reviewing policies and procedures for deleting user data. Read our **Blog Post** for more detail."
5. Given the level of sensitivity of the data, storing the data at the University servers is enough to assure all the confidentiality and security of the data.
6. We are working on a simplified version of the Declaration of Personal Data processing with the IRIT Laboratory that will be evaluated by the UT3 Data Protection Officer (DPO), and will validate the data processing of the data in the future.

Références associées	• OFS Security and privacy policies : https://help.osf.io/article/203-faqs

Quels sont les aspects éthiques à prendre en compte lors de la collecte des données ?

Description	All data collected during the experimental settings in D2.1. has been collected using informed consents. All the informed consents are also available in the OSF platform related with this deliverable and associated scientific publications (https://osf.io/w2p83/):

- Informed consent for the "Exploration phase": https://osf.io/u8dnz
- Informed consent for the "Design phase - Experts WS": https://osf.io/mc2n8
- Informed consent for the "Local evaluation": https://osf.io/rcjpw
- Informed consent for the "Broad evaluation": https://osf.io/kjgm5

Références associées	

- Informed consents used for the D2.1 : https://osf.io/w2p83/

D3.1.Experimental Scenario 1: Evaluating effects of NMP with Students

Quelles sont les contraintes juridiques (sensibilité des données autres qu'à caractère personnel, confidentialité, ...) à prendre en compte pour le partage et le stockage des données ?

Description	In this project, we do not manage "sensible data" according to GDPR definitions. So, no special juridical constraints should be considered. In terms of confidentiality, all the data is used only by personal associated to the Université Toulouse Fédéral, assuring its correct and good ethical use. Nevertheless, we are taking a set of actions to assure the confidentiality of the data:

1. We use informed consents to be completed by the participants, and only considering data from those accepting to share the data.
2. In the informed consents, we are going to indicate that they can not accept the use of their data, that they can gave access to their data and that they could ask for deleting the data whenever they want.
3. Also, the data is always facilitated by the teachers participating in the experimental design and is always treated in a pseudo-anonymous way. In this way, we could only recover the identity of the participants if the teachers give us access to their databases. Only the data previously anonymised is shared.
4. Only anonimyzed data will be shared to other researchers.

   The data could be only re-used by other researchers with a reference to the data collected. Also, all the data published in OFS is compliant with the GDPR principles:

   "OSF has taken several steps to comply with GDPR, including revising our **Terms Of Use** and **Privacy Policy**, ensuring GDPR compliance of third-party vendors and executing Data Processing Addendums with each, and reviewing policies and procedures for deleting user data. Read our **Blog Post** for more detail."
5. Given the level of sensitivity of the data, storing the data at the University servers is enough to assure all the confidentiality and security of the data.
6. We are working on a simplified version of the Declaration of Personal Data processing with the IRIT Laboratory that will be evaluated by the UT3 Data Protection Officer (DPO), and will validate the data processing of the data in the future.

All data collected during the experimental settings in D3.1. has been collected using informed consents. All the informed consents are also available in the OSF platform related with this deliverable and associated scientific publications (https://osf.io/2wzm4).

Quels sont les aspects éthiques à prendre en compte lors de la collecte des données ?

Description	All data collected during the experimental settings in D3.1. has been collected using informed consents. All the informed consents are also available in the OSF platform related with this deliverable and associated scientific publications (https://osf.io/2wzm4).

Traitement et analyse des données

NoteMyProgress Moodle Plugin (https://gitlab.com/laser-anr/notemyprogress-plug-in)

Comment et avec quels moyens seront traitées les données ?

Description	The source code is already published publicly under the License SOFTWARE EVALUATION LICENSE IRIT computer science research laboratory, Toulouse, France. The code will be updated again after its second evaluation during 2022-2023 and updated again by a professional company by end 2024.

D1.1.Data & Analytical framework (https://osf.io/n9qdg)

Comment et avec quels moyens seront traitées les données ?

Description

The Analytical Framework will be updated through literature reviews conducted by the main partners and collaborators of the project.

D2.1.Design-Based Research Process for the design of NoteMyProgress (NMP)

Comment et avec quels moyens seront traitées les données ?

Description

The data collected for the D2.1 is treated using mixed methods, which involves the combinations of cualitative and quantiative methods. All methods are described and reported in D2.1 (https://osf.io/6a5rh).

Références associées

- Data analysis protocol and results : https://osf.io/6a5rh

D3.1.Experimental Scenario 1: Evaluating effects of NMP with Students

Comment et avec quels moyens seront traitées les données ?

Description

The data collected in this liverable D3.1 was analyzed following the analytical framework described in D1.1 (https://osf.io/n9qdg) and also D3.1 (https://osf.io/6g84m).

All the details about the analytical methods used to treat the collected data is also available in the publication by Villalobos et al. (2022).

Also, the scripts used for the analysis and raw data is available in the supplementary material of this paper: https://osf.io/xgav4/

Références associées

- Data and analytical scripts : https://osf.io/xgav4/

Stockage et sauvegarde des données pendant le processus de recherche

NoteMyProgress Moodle Plugin (https://gitlab.com/laser-anr/notemyprogress-plug-in)

Comment les données seront-elles stockées et sauvegardées tout au long du projet ?

Besoins de stockage

The source code will be stored publicly in the LASER Gitlab. However, the internal code under development will be stored in the IRIT Gitlab, which is administered by the informatics service of the IRIT Laboratory following all the the juridic framework of the laboratory.

Volume estimé des données 7

Unité Mo

Mesures prises pour la sécurité des données

The public software will be stored in gilab. The private code will be stored in the IRIT Gitlab, which is controlled and stored in the IRIT laboratory servers. The laboratory has already a policy for the data protection.

D1.1.Data & Analytical framework (https://osf.io/n9qdg)

Comment les données seront-elles stockées et sauvegardées tout au long du projet ?

Besoins de stockage	The analytical framework of the project will be openly available during and after the project in the OFS Platform (https://osf.io/qpt3k). The intermediate versions of these documents updates will be stored in the researchers' computers, all co-administered by the informatics service of the IRIT Laboratory, who assures the data storage and security copies.
Volume estimé des données	607
Unité	Octets
Mesures prises pour la sécurité des données	The intermediate versions of these documents updates will be stored in the researchers' computers, all co-administered by the informatics service of the IRIT Laboratory, who assures the data storage and security copies.

D2.1.Design-Based Research Process for the design of NoteMyProgress (NMP)

Comment les données seront-elles stockées et sauvegardées tout au long du projet ?

Besoins de stockage	The data associated to the D21. will be openly available during and after the project in the OFS Platform (https://osf.io/qpt3k). During the project, the data collected for this deliverable will be stored in the researchers' computers, all co-administered by the informatics service of the IRIT Laboratory, who assures the data storage and security copies.
Volume estimé des données	2
Unité	Mo

D3.1.Experimental Scenario 1: Evaluating effects of NMP with Students

Comment les données seront-elles stockées et sauvegardées tout au long du projet ?

Besoins de stockage	The data associated to the D3.1 will be openly available during and after the project in the OFS Platform (https://osf.io/xgav4/). During the project, the data collected for this deliverable will be stored in the researchers' computers, all co-administered by the informatics service of the IRIT Laboratory, who assures the data storage and security copies.
Volume estimé des données	8
Unité	Mo

Partage des données et conservation à long terme

NoteMyProgress Moodle Plugin (https://gitlab.com/laser-anr/notemyprogress-plug-in)

Comment les données seront-elles partagées ?

Modalités de partage	The source code is available via Gitlab under the SOFTWARE EVALUATION LICENSE IRIT computer science research laboratory, Toulouse, France: https://gitlab.com/laser-anr/notemyprogress-plug-in
Potentiel de réutilisation	Other universities such as the Universidad de Cuenca in Ecuador, as well as other universities in Toulouse (UT2) are already using the tool.

Comment les données seront-elles conservées à long terme ?

Justification	The data will be stored for the period of the project within the IRIT servers and, after the project, will be stored in HAL and Gitlab.
Volume estimé des données	10
Unité	Mo
Date de début	2022-04-11
Date de fin	2025-03-31
Dispositions finales	The data will be available via Gitlab after the end of the project

D1.1.Data & Analytical framework (https://osf.io/n9qdg)

Comment les données seront-elles partagées ?

Modalités de partage	The document will be shared publicly during the project in the LASER Webiste (Deliverables) and during and after the project in the OFS Laser project (https://osf.io/s86au/)
Potentiel de réutilisation	Any researcher could use the analytical framework proposed.

Comment les données seront-elles conservées à long terme ?

Justification	The document will be shared publicly during the project in the LASER Website (Deliverables) and during and after the project in the OFS Laser project (https://osf.io/s86au/). Although the OFS platform offers a permanent storage of the data, the main data will be also updated at the HA platform once the project will be finished, with its main products.
Volume estimé des données	0
Date de début	2022-10-05
Date de fin	2025-03-31

D2.1.Design-Based Research Process for the design of NoteMyProgress (NMP)

Comment les données seront-elles partagées ?

Modalités de partage	The document will be shared publicly during the project in the LASER Webiste (Deliverables) and during and after the project in the OFS Laser project (https://osf.io/s86au/).
Potentiel de réutilisation	The data could be employed in future analysis of the NMP prototypes.

Comment les données seront-elles conservées à long terme ?

Justification	The document will be shared publicly during the project in the LASER Website (Deliverables) and during and after the project in the OFS Laser project (https://osf.io/s86au/). Although the OFS platform offers a permanent storage of the data, the main data will be also updated at the HA platform once the project will be finished, with its main products.
Volume estimé des données	0
Date de début	2022-04-01
Date de fin	2025-03-31

D3.1.Experimental Scenario 1: Evaluating effects of NMP with Students

Comment les données seront-elles partagées ?

Comment les données seront-elles conservées à long terme ?

Justification	The document will be shared publicly during the project in the LASER Website ([Deliverables](#)) and during and after the project in the OFS Laser project (https://osf.io/s86au/).
	Although the OFS platform offers a permanent storage of the data, the main data will be also updated at the HA platform once the project will be finished, with its main products.
Volume estimé des données	0
Date de début	2022-04-01
Date de fin	2025-03-31