



**A monitoring and communication web platform for
sustainable development policies**

**Functional and technical presentation followed by
user references**

Platform conceived and developed by:

intermezzo 
INNOVATION ■ OUTILS ■ PROJETS ■ TERRITOIRES

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1 Software presentation

1.1 In a nutshell

Created in 2003, Linea21 is a *free, open-source monitoring and communication software for sustainable development and collaborative policies*.

Linea21 enables **top-down communication** from an administration to its citizens.

It also enables citizens to take part in public action by participating in workgroups (bottom-up approach). As such, it **fosters and simplifies consultation/cooperation processes**.

It is also a management tool adapted to horizontal organisation, offering each actor of the project a space for expression matching their competence.

It makes it possible for a local authority to **continuously and transparently follow and report** on its policy. A dashboard allows for monitoring of indicators.

Linea21 can be used as a collaborative tool when elaborating and implementing sustainable development programs as well as an information platform towards the general public and a monitoring system in later stages. Linea21 is a **management tool** for sustainable development projects.

The company *Intermezzo* is in charge of the development and improvements of the Linea21 software. It offers implementation services as well, from installation and customisation to indicator definition. It also runs trainings for software use and accompanies change to optimise organisation among departments.

The software is currently in **version 2.3**.

1.2 Who is the software aimed at?

The software is aimed just as much at local authorities that at companies civil society actors that are engaged in a sustainable development project or a reporting program (be it extra-financial, environmental...)

Originally developed for the specific needs of Agenda21s, the software was adapted to meet the needs of other programs, such as climate and energy packages, mobility plans, local waste prevention plans, local housing programs, CSR, EMS, environmentally-oriented urbanism, territorial schemes or participative initiatives.

The software offers **intuitive, powerful and user-friendly management and monitoring tools**.

The software can be used as a communication platform to facilitate a consultation/collaboration process with inhabitants. It can also be a **private platform** for thoughts and exchanges between the project's different territorial and administrative entities.

1.3 Needs addressed by the software

Linea21 answers the common needs of sustainable development approaches:

- Communicate and Publish in order to **Inform**;
- Raise awareness among the general public in order to **Involve and facilitate the participation process**;
- Evaluate in order to **Improve performances and offer transparency**;
- **Organise project management and facilitation** around a unifying tool.

1.4 The choice of an open-source software

Linea21 is an open-source software published under a GNU GPL version 3 license¹.

Open-source softwares are more and more common in daily use: web browser *Mozilla Firefox* and office suite *LibreOffice* are famous examples of open-source softwares.

Contrary to those called "*propriety*" softwares, open-source softwares may be used by all and their existence relies on the respect of fundamental freedoms.

The *Free Software Foundation*, originator of the concept of open-source software, defines it as a software that secures the following four freedoms:

- *The freedom to run the program as you wish, for any purpose (freedom 0).*
- *The freedom to study how the program works, and change it so it does your computing as you wish (freedom 1). Access to the source code is a precondition for this.*
- *The freedom to redistribute copies so you can help others (freedom 2).*
- *The freedom to distribute copies of your modified versions to others (freedom 3). By doing this you can give the whole community a chance to benefit from your changes. Access to the source code is a precondition for this.*

Thus, if a modification is made to the software and constitutes an enhancement for all users, it may be shared respecting the initial conditions. For this reason, these freedoms encourage innovation and ensure the software's durability.

As an example, recently, several enhancements have been developed under the impulse of local community users, such as new collaborative features, provision of resources, or a better programming management of tasks associated to each action.

The supply of open-source softwares grows larger and larger and the maturity of the "*open-source*" model now guarantees quality products. Ever more frequently, local authorities turn to open-source softwares.

Initiatives such as OSOR.EU² at the European level (project funded by the *European Commission*) or ADULLACT³ in France encourage and support open-source softwares aimed at local authorities.

¹ <http://www.gnu.org/licenses/gpl.html>

² The Open Source Observatory and Repository for European public administrations

³ Association des Développeurs et des Utilisateurs de Logiciels Libres pour l'Administration et les Collectivités Territoriales – *Association of Developers and Users of Open-source Softwares for Administration and Territorial Communities*

2 Software solution: features

Linea21 is available in English. The upcoming part describes Linea21's "standard" features, on which we base our service offer. In order to complement the following description, we encourage you to test the application for yourself online.

Access to Linea21 online demo:

Find the login information and instructions on: <http://www.linea21.com/demo/>

Or access the demo directly from the following URL:

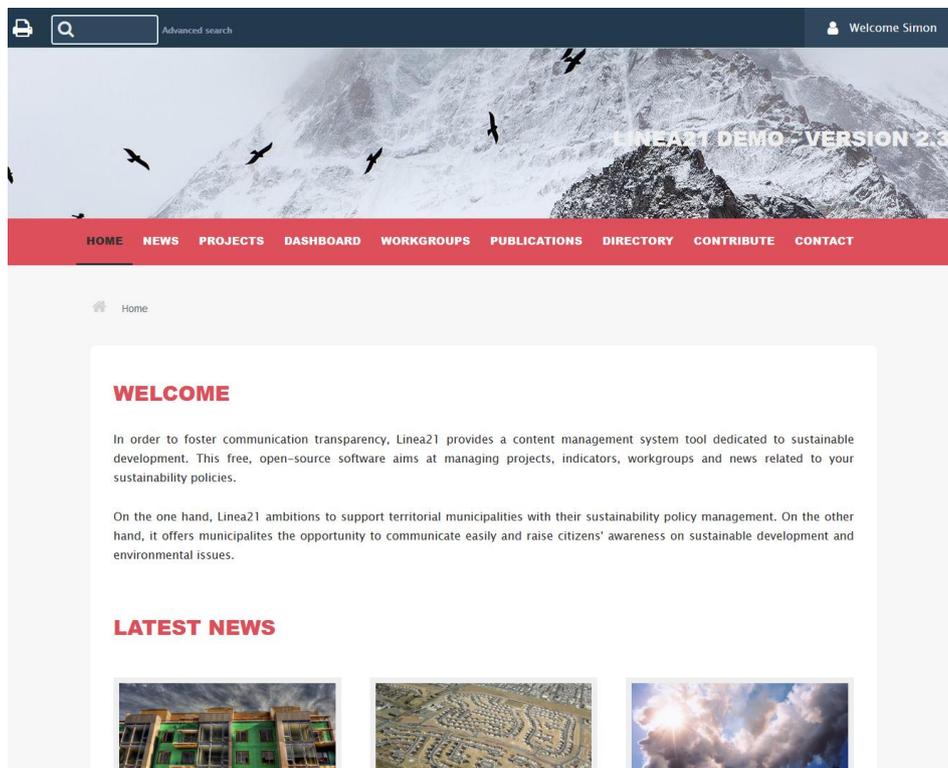
- Front office: <https://demo.linea21.com/public/>
- Back office: <https://demo.linea21.com/admin/>
(login/password: admin/linea)

Note: You may experience some issues navigating on the public interface since URL rewriting is activated and URLs are hard-coded in French in the main menus. But it all works very well (switch language to French to check)!

2.1 Linea21's front and back offices

2.1.1 Front office

Linea21 features two interfaces as a standard configuration: a public one (front office) and an administrative one (back office).



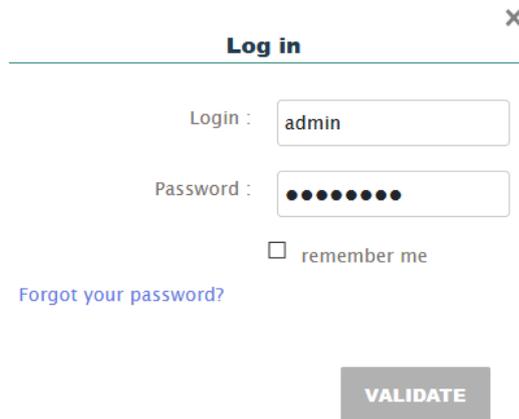
Presentation of the default public interface

The front office, or public interface, is a communication space available for all to read.

Web users may consult the news, projects, dashboard, files, directory and workgroups.

The interface represented in this screenshot is the one provided as default in the application, **we made a simple and low-key graphical choice to facilitate customisation of this space for projects which use Linea21.**

A user may have logging rights on the front office, they are then able to visit their profile, update their password and have discussions in workgroups.



A log-in space is available to enjoy these rights.

Note: it is perfectly conceivable to deploy Linea21 as a project management and monitoring tool without implementing the public interface. The latter can simply be deactivated.

2.1.2 Back office

The back office, or administration interface, lets administrators (whose user rights allow them to) read, edit and delete all content for every Linea21 module: workgroups, projects, indicators, news...

Administrators must log in through an authentication screen to access the back office.

One or several administrators may log in to the back office by filling in their login and password.

The back office then becomes available to manage the application and its contents.



Demonstration Linea21 - version 2.3

Welcome Simon, Log out

linea21

quick admin communicate manage & follow configure Do you need help ?

Publications manager > View publications

+ Add a new publication View publications Search

2 publications in database.
Query result : 2 records

Display by status

Title	Author	Created on	Published on
Développement durable : quelques définitions	pierre	01-06-2018	01-06-2018
L'ecodesign	admin	01-06-2018	01-06-2018

Linea21, software under GNU GPL v3 license contact our support
Administration console - version 2.3.0-r5578

intermezzo

Presentation of the back office

2.2 Organising project management

Linea21 was specifically designed for sustainable development projects. It can adapt to the needs of the field's particular problematics and acts as an organisational framework inherent to using the tool. Using Linea21 represents a (partial) choice regarding project management, with the solution still bringing in enough flexibility to abide by each territorial authority's organisational demands.

2.2.1 Monitoring your action plan

Note: "actions" are referred to as "projects" by the platform. In the rest of the document, both terms are used indifferently.

The project/action management module is a core element of the software. It allows a precise description of an action, as well as relationships between actions and application components: workgroups, publications, indicators...

Every action is organised around general information, programming information (schedule, progress, related to-do list), precisions regarding monitoring and finally, budgets and allocated means.

Each action has its own indicators. One or more action managers may be appointed to make the action evolve and ensure its reporting.

A workgroup may be associated to a specific action – for example, when building or updating it.

Axis 1 - Moving differently

65 %

1.1 Plan and foster road safety in the city

Completion : 56 %

Name	Likes	Priority	Progression (%)	Created on	
1.1.1 Create a network of car-free streets	4	medium	60 %	27-11-2016	
1.1.2 Strengthen the bike lane network	18	high	70 %	27-11-2016	
1.1.3 Create bike lanes on the riverbanks	2	medium	40 %	27-11-2016	

1.2 Improve and support citizens' access to facilities through the development of the public transport network

Completion : 72 %

Name	Likes	Priority	Progression (%)	Created on	
1.2.1 Continue extensions of tramway lines	2	medium	70 %	27-11-2016	
1.2.2 Implement a long-term bike rental service	5	moyenne	90 %	27-11-2016	

Action plan – Back office

Priority : *

Level : *

Workgroup :

Scale : *

Tag(s) :

Enter a value and press Enter.

Indicators :

Filling of an action card (excerpt) – Back office

2.3 Handling monitoring and ensuring transparency

The application makes it possible to carry out an assessment of the action plan. It also allows you to implement a strategic dashboard focused on the main indicators offering a global vision on the initiated policy.

2.3.1 The dashboard of indicators

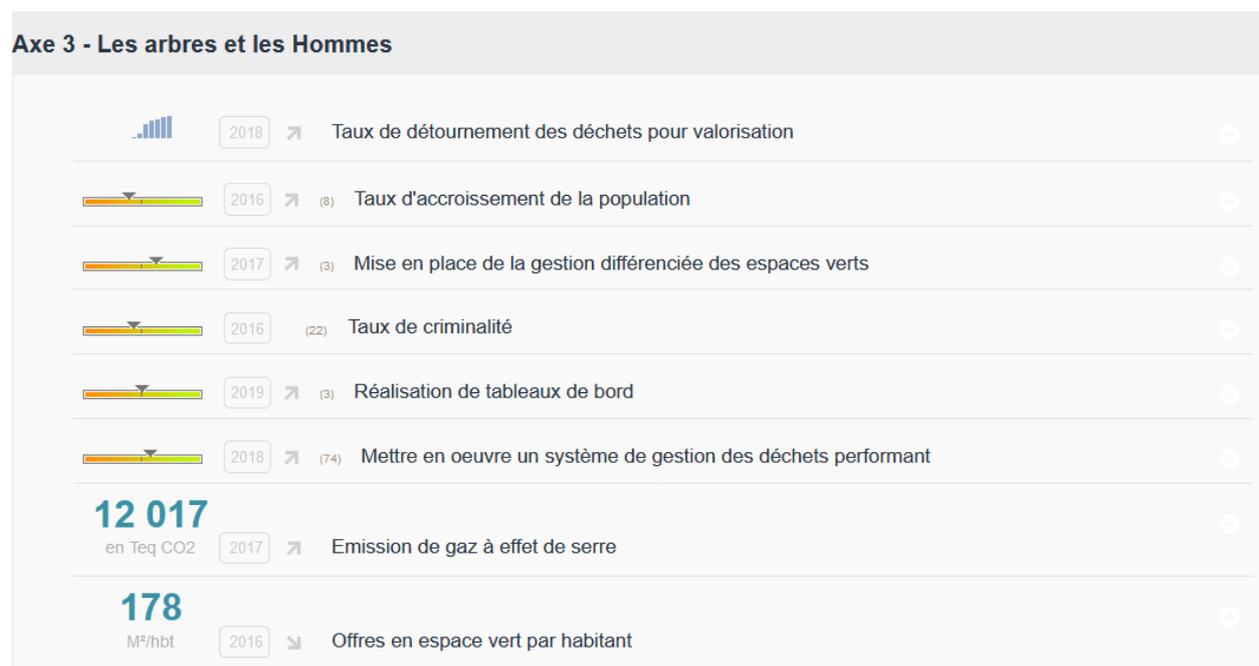
The indicator management interface is fully customisable and flexible enough to easily integrate “indicator” data at every scale of the community.

Beyond quantitative indicators, the platform allows you to manage qualitative, boolean as well as multi-value indicators: the latter are useful for an inventory by source or by sector, i.e. in the case of a greenhouse gas emissions inventory or of the study of renewable energy sources.

Three representation modes are available by default (see the following figure):

1. A *gauge*-type representation, enabling to visually qualify the indicator’s performance;
2. A *raw value*-type representation, displaying the indicator’s exact value;
3. A *sparkline*-type representation, displaying the values’ history.

If needed, these representation modes can be extended.



Note: the community is free to choose which indicators to use!

The history of values is available in graphical format (bar, line and area charts) and numerical format – See illustrations further in this document.

Indicator management

The integrated indicator management tool allows for input of extensive information related to an indicator:

- General information: indicator description, comments, goals, improvement recommendations;
- Assessment and relevance criteria, customisable on demand;
- Related regulations;
- Information on the data collection method (internal or external with provider information);
- Measurement information (threshold value, minimum, maximum...).

For each indicator, the values are relative to a given scale.

Depending on their needs, an administrator has the possibility to leave indicators in a private state: they are not to be published on the public interface.

Data processing

- Data classified in chronological order;
- Graphical visualisation of an indicator's evolution depending on data input, with on-demand customisation of the representation mode.

2.3.2 A valuable assistance for the elaboration of yearly sustainability reports

Linea21 brings a concrete answer to the elaboration of yearly sustainability reports.

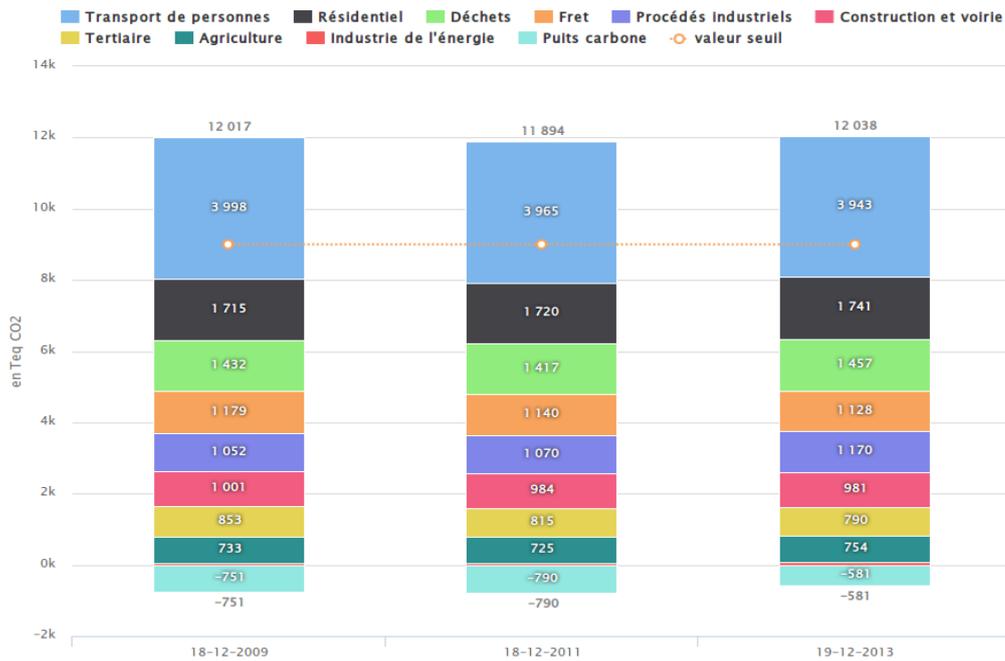
The application allows for data export under several formats: PDF, HTML, Word. The latter lets you reuse content to feed the sustainability report.

Exports are configurable (by scale, purpose...). They make it possible to recover the indicators and their value history as well as their graphical representation.

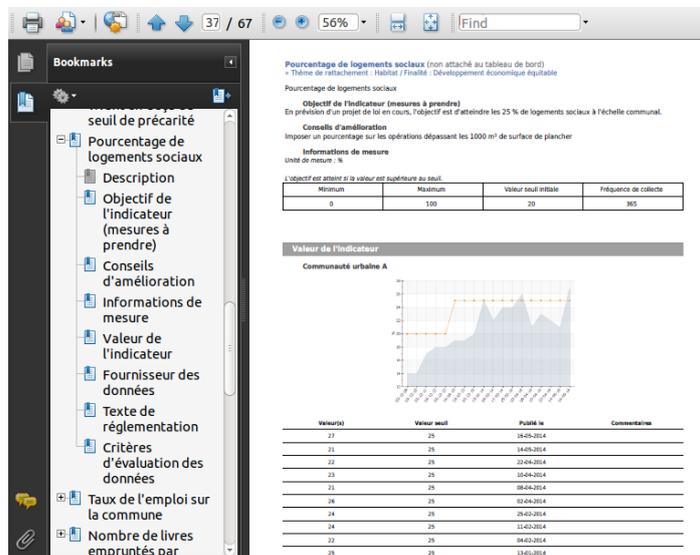


Different types of indicator representation

Emission de gaz à effet de serre



Value history. Here the example of an emissions balance (multi-value indicators are supported by the application)



Example of an export to PDF format

2.3.3 Data export format

Beyond exports to Word, PDF and HTML formats, you will be able to **export the values of an indicator directly to Excel format.**

An XML exchange flow for indicator is also available.

2.4 Publishing and communicating

Various features are offered by the application in order to facilitate communication related to the initiative. Three modules are available and adapted.

2.4.1 News, management of “hot content”

THERMIC RENOVATION OF BUILDINGS: A MAJOR CHALLENGE

4 comment(s) [Add a comment](#)

Published 2 years ago by [admin](#) - 

Les lois “Grenelle” imposent la rénovation thermique complète des logements, pour une économie d’énergie de 38% en 2020 et de 70 à 80 % en 2050. Très bien, mais en pratique, comment faire ? Quels chemins pour y arriver ? Une étude complète vient d’être publiée par le Club d’Ingénierie Prospective Énergie et Environnement



La rénovation énergétique dans le parc résidentiel, telle qu’elle est envisagée, s’appuie sur des technologies existantes ou susceptibles d’une large diffusion à court terme : isolation par l’extérieur, isolants thermiques minces, équipements de ventilation avec récupérateur de chaleur sur l’air extrait, pompes à chaleur électrique ou gaz dans le neuf ou en substitution aux chaudières existantes, cogénération à gaz ou à bois, mini- réseaux de chaleur valorisant la biomasse, la géothermie...

Mais selon l’étude du Clip il est probable que les mesures prévues dans le Grenelle 2, restant basées sur des incitations fiscales, le



L’étude est [disponible sur le site de l’IDDRI](#), l’Institut du développement durable et des relations internationales.

De nombreuses données disponibles

On y trouvera en particulier une analyse du parc de logements en métropole, les caractéristiques du parc de résidences principales, les évolutions prévisibles du parc, les consommations d’énergie et les émissions de CO₂, la demande d’énergie dans le neuf, la réduction de la demande de chauffage dans le parc existant, les évolutions technologiques prévisibles des dispositifs de chauffage et de production d’ECS, une étude prospective sur la base de quatre scénarios énergétiques, les contenus CO₂ des énergies dans les différents scénarios, les problèmes posés par l’ensemble des scénarios, la question de la disponibilité de la ressource en bois.

S’y ajoute une bibliographie importante et des hypothèses de coût de réhabilitation des toitures, murs, planchers, fenêtres, selon l’ancienneté du bâtiment.

Pour en savoir plus

Actualité issue du site [DDmagazine.com](#). Photos d’ouverture licence CC de [Nementosis](#)

Example of a news article – Public interface

Communities can publish their news on the public website, maintaining total control over the layout.

All news can be edited and deleted from the back office. Several publication options are provided by default.

A **RSS syndication feed**⁴ is accessible from the application’s public interface.

⁴ RSS is an Internet technology which keeps its user informed of a website’s updates. It relies on the XML exchange format.

2.4.2 Newsletter

As a complement to the news module, you can use the newsletter feature to keep users informed by sending them content directly in their electronic mailbox and thus inviting them to visit the platform. Receiving the newsletter requires prior registration from the user. They can, if desired, unsubscribe on the public interface.

It is possible to **fill the newsletter automatically** from the news created since the last delivery.

So as not to overload the activity of the hosting server, the newsletter delivery is automated and performed in the night.

The newsletter module allows for complex graphical layouts.

2.4.3 Publications, management of “cold content”

With an awareness-raising purpose, Linea21 features a full module for publication. Publications are distinct from news since the former addresses substantive issues, in a detailed manner, whereas the latter fits into a shorter temporality. This is what separates “hot content” from “cold content”.

Considered as an easy-to-create multimedia ensemble, a file is separated into large sections including:

- the possibility to add images or illustration visuals;
- the provision of multimedia elements (video, soundtrack...);
- the creation of Internet links and bibliographical references.

Publications are structured in different sections.

Example : **Publication title: “Sustainable development: some definitions”**

- *Part 1: Introduction*
- *Part 2: Sustainable development definitions*
- *Part 3: A sustainable development implementation tool: Agenda 21*
- *Part 4: International conferences*
- *Part 5: European and French scales: reflections of local actions*
- *Part 6: Sustainable development indicators*
- *Part 7: Conclusion*

2.4.4 Directory

A (local) directory of sustainable development is available to the community to allow registration of companies, associations or any other type of structures which request it. The directory can also be filled by the application administrator.

It constitutes a common database for the different users of the software. An alphabetical index makes detailed access easier.

This directory can gather all institutional or physical partners of the project.

It features an internal geocoding mechanism making it possible to localise a structure on a map (OpenStreetMap or GoogleMaps).

Openville Eolien

adresse :	123, rue Victor Hugo 45000 Orléans
téléphone :	n.c.
fax:	n.c.
email :	info@linea21.com
site internet :	http://openville-eolien.net
domaine(s) d'activité :	énergie eolienne
Thème :	n.c.
Sous thème :	n.c.

Example of an entry featured in the application directory

2.5 Facilitating collaboration

2.5.1 Comments

In order to enable or even encourage citizens to voice their thoughts, it is possible to individually activate comments on various modules (news, publications, projects, indicators, workgroup reports, shared files).

Comments can be subjected to moderation or else be directly published. The comments module is usable to create consultations and gather opinions by inhabitants.

An email notification is sent to application administrators every time a new comment is posted.

Comments manager > View comments

View comments Search

Module filter Display the full list Disapproved Approved Waiting approval

17 comments are stored in the database. Query result : 16 records

Export values

xavier [registered] - info@linea21.com #180 - 17-04-2019
 La feuille de route environnementale de la collectivité doit également prendre en compte les enjeux identifiés à l'échelle régionale. Est-ce fait ?
 posted in contribution
 0 likes

pierremollat (Pierre Molot) [registered] - info@linea21.com #179 - 11-04-2019
 Le forum participatif qui a eu lieu vendredi dernier fut un grand succès. Merci pour cet événement !
 posted in contribution
 0 likes

cecile [registered] - info@linea21.com #181 - 22-03-2019
 Notre association réfléchit sur ce sujet depuis de nombreuses années. Je vous informe que nous sommes prêts à participer avec vous à la mise en place d'une politique ambitieuse.

Comments manager – Back office

2.5.2 Workgroups

Whether consultation/collaboration be at a large or reduced scale, workgroups are meant to facilitate it. They contribute to their participants' involvement and awareness, stimulate reflection and support the emergence of a shared culture over complex questions.

Used internally, among the municipality's different services and/or actors (including elected officials), workgroups are a primary collaborative tool for the elaboration and monitoring of the initiated project.

Workgroups make it possible to get a better grasp of the population's needs, listen to their expectations and engage them through active participation in the community's sustainable development strategy. Each web user may join in a predefined workgroup, on the condition of having a user account and upon registration. It is also possible to create *restricted* workgroups, open only to specific users and not visible to others, e.g. for internal work among agents.

Each group features a schedule, a discussion forum, a dedicated file sharing space and the possibility to produce reports.

A workgroup may be facilitated by one or more users. A group manager has specific administration rights over it. The manager has management rights regarding users registered to the group: they can add or delete existing users.

Workgroups manager > View workgroups

+ Add a new workgroup View workgroups Search

3 workgroups in database.
Query result : 3 records

Display by status

Title	Created on	
Improving energy performance in social housing	31-03-2018	 
Job evolution	01-06-2018	 
Sewage treatment: industry cases	01-06-2018	 

Workgroup management page – Back office

Schedule feature

The workgroup's pending tasks are regularly updated by the facilitator: every user can participate to the group's collaboration at their own scale.

Each task is displayed in chronological order on the public interface.

Authorised users (managers) can add and delete tasks. Tasks are made up of a date, a title and a rich, customisable content.

Calendar

27-06-2021

[To calendar \(iCal\)](#)

FOURTH COLLABORATION SESSION

A new collaboration session is about to start. You are invited to a fourth workshop. It will take place at the City Hall, Council room, at 6pm.

06-03-2021

[To calendar \(iCal\)](#)

THIRD COLLABORATION SESSION

In order to evaluate the opportunities of public-private partnerships, the third collaboration session will host 3 energy specialists-representatives. Just like last time, the meeting will take place at the City Hall starting 10am.

20-03-2020

[To calendar \(iCal\)](#)

PUBLIC MEETING

Task common to all workgroups

A public meeting will take place on March 20th. All panel participants are invited!

Discussion forum

In a very easy-to-use feature, a participant may add and modify posts on a particular topic in order to build, along with the other members, the workgroup report or just to discuss a chosen topic (related to the workgroup's theme).

A logged-in user may create a new topic by adding a discussion, reply to an existing discussion and manage their own posts through available features of modification and deletion.

A manager may lock, delete and modify posts or discussions for the whole workgroup.

They may also lock existing discussions to leave them in read-only mode: no user is then able to reply to a locked discussion.

An email-notification system informs the various workgroup participants of new exchanges. This system facilitates and promotes discussion.



Energy performance diagnosis on municipal buildings

Improving energy performance in social housing



pierre
20-10-2018 11:49:15

Energy performance diagnosis on municipal buildings

Has a performance diagnosis been realised?



Workgroup discussion forum management page – Back office

Workgroup forum

6 topics in this workgroup

[+ Add a topic](#)

Subject	rp nb	Views	Last message
Energy performance diagnosis on municipal buildings by pierre	3	10	20-10-2018 11:49:37 by alexandre
Welcome by admin	2	3	21-11-2018 22:19:07 by admin

[+ Add a topic](#)

Workgroup discussion forum – Public interface

Shared files

A file sharing system among workgroup participants facilitates exchanges. Depending on the configuration, each participant may be notified upon the upload of new files on the platform. A file may be shared in one workgroup exclusively or in all workgroups.

CALENDAR
FORUM
SHARED FILES
REPORTS
SUBSCRIBERS

Shared files

Add files

Only 8 simultaneous uploads are allowed. The file size limit (per file) is 16 Mb.

Check this box to share file(s) with other groups

UPLOAD

i | New file(s) will be notified to workgroup members by email.

WORKGROUP FILES:

linea21 scriptinstructions.zip (2.05 Ko) 0	
collaboration-map.png (5.26 Ko) 0	
energy-efficiency-social-housing.pdf (4.48 Mo) 0	

▶ National studies

COMMON FILES:

User_guide_Linea21.pdf (418.93 Ko) 0	
brother_hl4150cdn.pdf (346.16 Ko) 0	
tulips.jpg (606.34 Ko) 0	

Shared files in a workgroup – Public interface

Report editing

As a final purpose of the workgroup, the production of a report happens progressively as participants' suggestions/requests are collected, ending up as a citizen (or expert) summary over a given theme. The report can feature Internet links creation and bibliographical references. Its transformation as a classic publication is conceivable.

WORKGROUP REPORTS
↑

+

Title	Status	Created on	
Report on the first discussion session	Public archives	31-03-2019	

Workgroup report management – Back office

2.6 Crosscutting features

Geographical scales

All Linea21 modules are designed to integrate the different scales of a territorial community. This enables a better consideration of inter-municipal structures: every module makes it possible to publish information relative to a neighborhood, a municipality, a district, a region...

Alternatively, you can use the scale module to organise information by departments: *environment, water, waste, sanitation...*

Publication levels

Each element published on the public website (publications, news, workgroups, indicators) and more specifically the action plan is structured around hierarchical levels.

By default, the application features the 5 sustainable development purposes defined by the French Ministry of Ecology. They of course must be modified to adapt to your own context – the 17 sustainable development goals could be an alternative. The application is able to support a structure over one or several levels.

Related tags

In order to improve content structuration and guide users towards their interests, Linea21 offers a filter system through tags.

User management

Several combinable use levels are available in Linea21:

- **Administrators** have access to all administration sections of the website.
- **Dashboard managers** administer the dashboard (indicator values) and its structure.
- **Project managers** can be put in charge of one or more projects. They are able, if need be, to update their action and its reporting indicators.
- **Writers** have a publishing function: they can write news and files in the back office.
- **Workgroup managers** gain management access to one or several workgroups (schedule management, discussion moderation and facilitation, report edition).
- **Ordinary users** can register to a workgroup on the public interface, participate in its discussions and share documents, post comments and manage their user profile.

Users manager > Edit user : richard

+ Add a new user View users Search

richard

SEND NEW ACCOUNT NOTIFICATION ASSIGN A NEW PASSWORD CONVERT TO ADMINISTRATOR

Edit rights by modules

⇒ Dashboard manager : no rights manager

⇒ Projects manager : no rights manager

⇒ Publications manager : no rights editor

⇒ News manager : no rights editor

⇒ Workgroups manager : no rights leader

User profile

Login : *

Email : *

Public email : yes no

User edition form – Back office

An app extension enables you to delegate user authentication to a LDAP or Active Directory.

Search

The public interface offers a search engine over all modules. Searching can be performed from a simple field or from advanced mode:

ADVANCED SEARCH

Keyword(s) :

one of these words all these words full expression expanded search

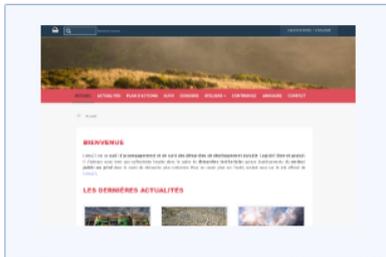
SEARCH

Advanced search form – Public interface

In the back office, every module has a specific search feature. A global search over all Linea21 elements is also available.

Graphic customisation by themes

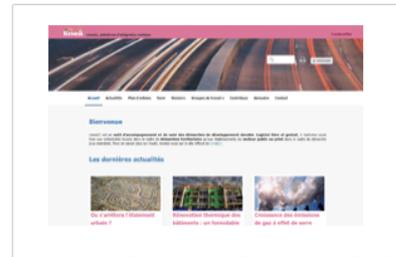
Both the back- and front-offices can be graphically modified through the creation and use of specific themes.



Name : 2019
 Author : Intermezzo
 Version : 1.0 | Compatibility : 2.1 +
 Description : Linea21 - 2019 public theme. A HTML5 and responsive theme based on Knacss v7.1.0



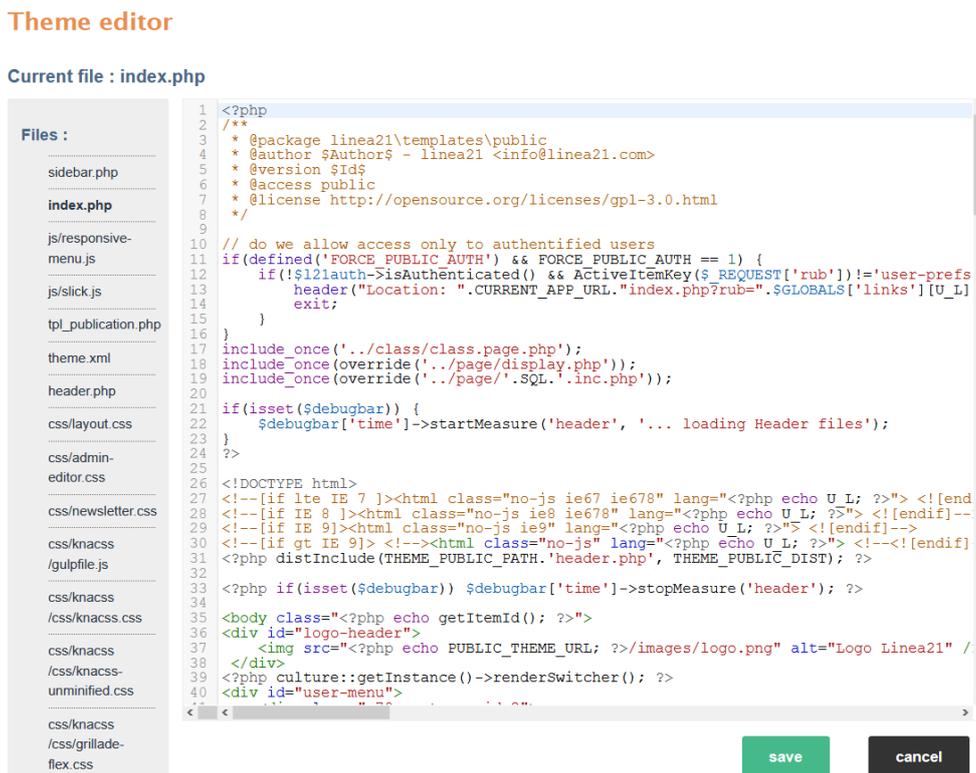
Name : Demo Alt.
 Author : Empreinte Urbaine
 Version : 1.0 | Compatibility : 1.5 +
 Description : Thème public alternatif - démonstration



Name : 2017
 Author : Intermezzo
 Version : 1.0 | Compatibility : 2.0 +
 Description : Linea21 - 2017 public theme. A HTML5 and responsive theme based on Knacss v6.0.5

Selection of available HTML themes – Back office

The application also features an online file editor. It allows the edition of HTML templates (themes) and plugin files.



Theme & plugin editor – Back office

System configuration

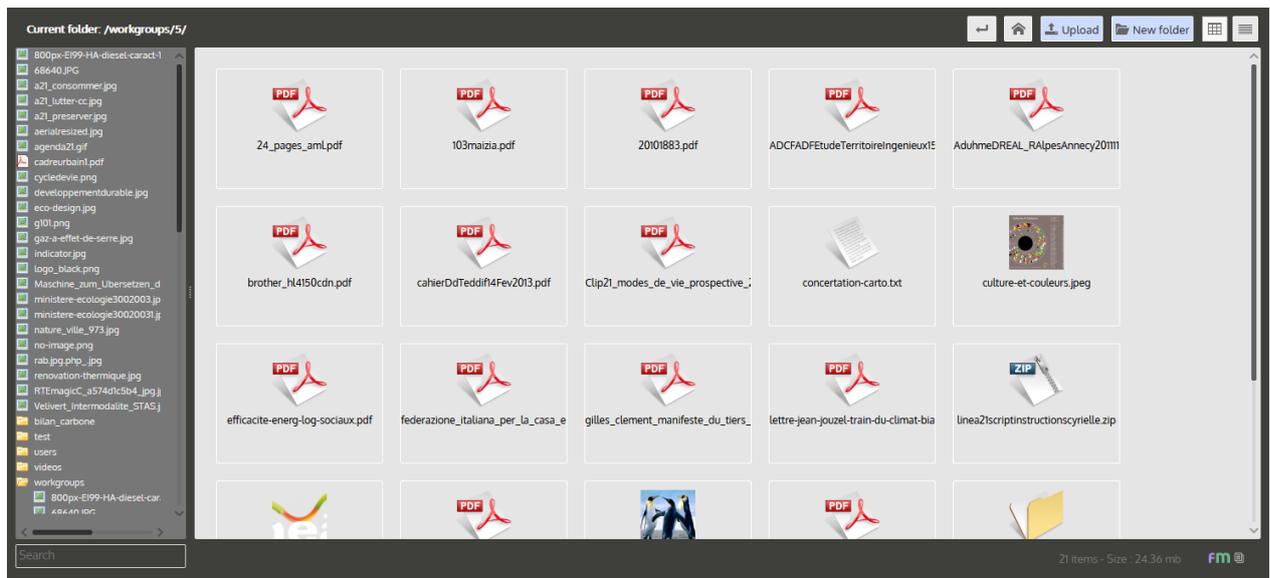
This module enables the administrator to carry out adjustments and configurations of the application for the project's needs. They can thus easily:

- Activate or deactivate unused modules ;
- Activate a different graphic theme for the front- or back office

- Configure the application language (English, Italian, French, Spanish);
- Configure email delivery;
- Configure the database;
- ...

File manager

The file manager lets logged-in users add files in order to share them: pictures (png, gif, jpg), office documents (Word, Excel, PDF), exchange files (CSV, txt...).



File manager/Electronic records management – Back office

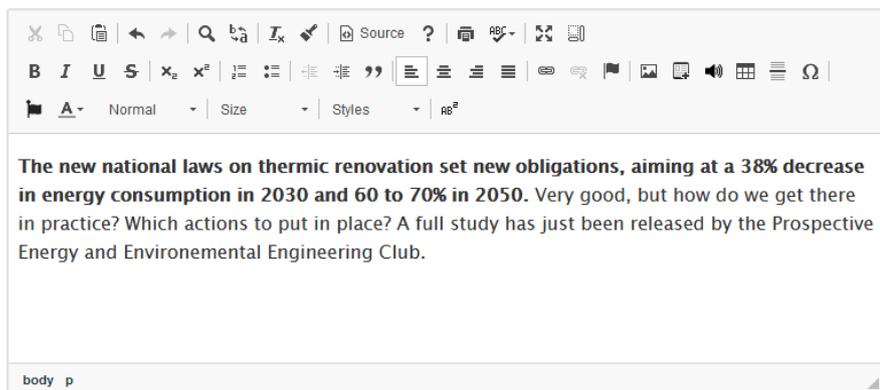
Files featured in the library can be organised by the users. It is possible to create folders and sub-folders to structure information. Both folders and files can be renamed, deleted and downloaded for offline consultation.

Rich text editor

The file manager is interfaced with a WYSIWYG⁵ (rich) editor, available when editing text. This interfacing enables users to associate resources to articles (news, workgroups, forum posts...).

As illustrated in the screenshot above, it is possible to download a picture on the server in order to use it as article illustration.

Furthermore, you are able to send an office document and link it to an article in progress through a hypertext link.



⁵ *What you see is what you get.* The acronym refers to graphical user interfaces which enable the writer to visually compose the desired result, typically for a layout software, word or image processing (*Wikipedia*).

3 Main user references

3.1 Territorial communities

 <p>Communauté d'Agglomération du Pays de Saint-Malo</p>	<p>Saint-Malo Agglomération</p> <p>Plan Climat Air Énergie Territorial https://projets.smagglo.net/linea21</p> <p>Déploiement du logiciel dans le cadre de l'élaboration du PCAET de l'agglomération. Implémentation du connecteur LDAP pour délégation de l'authentification à l'annuaire AD de la collectivité.</p>
 <p>LORIENT AGGLOMERATION</p>	<p>Lorient Agglomération</p> <p>Plan Climat Air Énergie Territorial https://suivi-pcaet.lorient-agglo.bzh</p> <p>Déploiement du logiciel dans le cadre de l'élaboration du PCAET de l'agglomération. Pilotage du programme d'actions et collaboration des parties prenantes.</p>
 <p>Mairie de Nanterre</p>	<p>Mairie de Nanterre</p> <p>Schéma Directeur Informatique</p> <p>Déploiement du logiciel dans le cadre de l'élaboration du Schéma Directeur Informatique de la ville. Des développements complémentaires ont été réalisés pour correspondre aux attentes.</p>
 <p>CHÂLONS EN CHAMPAGNE AGGLO</p>	<p>Châlons Agglo</p> <p>Plan Climat Air Énergie Territorial https://planclimat.chalons-agglo.fr</p> <p>Déploiement du logiciel dans le cadre de l'élaboration du PCAET de l'agglomération. Relais de communication de l'actualité du PCAET et pièce central du dispositif de suivi. Châlons Agglo est à l'origine de la fonctionnalité « Tâches programmées ».</p>
 <p>Communauté d'AGGLOMERATION PAYS BASQUE EUSKAL Elkargoa</p>	<p>CA du Pays Basque</p> <p>Plan Climat Air Énergie Territorial https://www.climataction-paysbasque.fr</p> <p>Déploiement du logiciel dans le cadre de l'élaboration du PCAET de l'agglomération. Plateforme bilingue, recueil des contributions libres ou thématiques des habitants, communication autour de la démarche.</p>



CA de Saint-Quentin-en-Yvelines

Plan Climat Air Énergie Territorial

<https://esqymo.sqy.fr>

Déploiement du logiciel dans le cadre de l'élaboration du PCAET de l'agglomération, en collaboration avec une graphiste. Propositions d'actions soumises au vote des internautes, mise à disposition de données et d'outils. L'extension « Ressources » a été créée à l'initiative de la CA.



CA du Pays de Fontainebleau

Plan Climat Air Énergie Territorial

<https://www.planclimat-pays-fontainebleau.fr>

Déploiement du logiciel dans le cadre de l'élaboration du PCAET de l'agglomération. Pilotage du programme d'actions et collaboration des parties prenantes en phase de mise en oeuvre.



CC du Pays de Nemours

Plan Climat Air Énergie Territorial

<https://planclimat.paysdenemours.fr>

Déploiement du logiciel dans le cadre de l'élaboration du PCAET de l'agglomération. Pilotage du programme d'actions et collaboration des parties prenantes en phase de mise en oeuvre.



Pays Cœur d'Hérault

Plan Climat Air Énergie Territorial

<http://planclimat.coeur-herault.fr>

Déploiement du logiciel dans le cadre de l'élaboration du PCAET Pays Cœur d'Hérault. Relais de communication de l'actualité du PCAET et pièce central du dispositif de suivi.



Villefranche Beaujolais Agglomération

Plan Climat Air Énergie Territorial

<http://planclimat-agglo-villefranche.fr>

Déploiement du logiciel dans le cadre de l'élaboration du PCAET de l'agglomération. Relais de communication de l'actualité du PCAET



Métropole Aix Marseille Provence

Plan Climat Air Énergie Territorial

<https://climat.ampmetropole.fr>

Déploiement du logiciel dans le cadre de l'élaboration du PCAET de la Métropole. Accès restreint. Implémentation HTTPS



Communauté de communes du Val d'Amboise

Plan Climat Air Energie Territorial

<http://planclimat.cc-valdamboise.fr>

Déploiement de l'application dans le cadre de l'élaboration du Plan Climat et de la vaste concertation engagée. Site de communication dédié au projet.



Communautés de communes des Crêtes Préardennaises

Suivi du projet de territoire / suivi du programme d'actions LEADER

<http://action.cretespreardennaises.fr> | <http://leader.cretespreardennaises.fr>

Deux déploiement du logiciel sont effectués. L'un concerne le projet de territoire qui réunit le plan d'actions de Cit'ergie, du PLS et du Plan Climat. Il est à usage restreint des services et partenaires du projet. L'autre se concentre davantage sur le programme LEADER. Il est ouvert à tous.



Ville d'Aix en Provence

Programme Local de Développement Durable – PLDD

<http://www.aixenprovence.fr/pldd/>

Le service Environnement utilise Linea21 dans le cadre de l'élaboration et du suivi de son PLDD. La ville bénéficie d'un accompagnement de l'ARPE PACA. Plus de 150 indicateurs ont été renseignés par [Intermezzo](#) lors du déploiement avec des valeurs parfois sur 5 ans.



Communauté de communes Auray Quiberon Terre Atlantique

Plan Climat Air Energie Territorial

<http://pcaet.je-vis-ici.fr>

Déploiement de l'application dans le cadre de l'élaboration du Plan Climat et du suivi du plan d'actions.



Pays Berry Saint-Amandois

Plan Climat volontaire

Déploiement de l'application dans le cadre du suivi du plan d'actions du Plan Climat.



Nantes Métropole Aménagement – Nantes Métropole – Ville de Nantes

Projet d'aménagement / démarche de concertation

<http://www.champdemanoevre.fr>

Déploiement du logiciel dans le cadre de la concertation relative au projet urbain du Champ de Manœuvre.



Ville d'Issy-Les-Moulineaux

Agenda21

<https://agenda21.ville-issy.fr>

Déploiement du logiciel pour le suivi et l'évaluation du plan d'action.
(authentification déléguée LDAP/AD, protocole HTTPS)



Ville de Bezons

Agenda21

<http://public.ville-bezons.fr/linea21>

Agenda21 de la ville de Bezons. En aval du travail d'élaboration du plan d'actions réalisé par [{auxilia}](#).



Ville de Fontenay-sous-Bois

Agenda21

<http://agenda21.fontenay-sous-bois.fr>

Agenda21 de la ville. En collaboration avec [{auxilia}](#).



Ville de Nice – Nice Côte d'Azur

Plan Climat Energie Territoire

<http://planclimat.nice.fr>



Limoges Métropole

Plan Climat Energie Territoire

<http://pcet.agglo-limoges.fr>



Communauté Urbaine de Cherbourg

Plan Climat Energie Territoire

<http://planclimat-cuc.fr>



Région Basse Normandie – DREAL

SRCAE (Schéma Régional du Climat, de l'Air et de l'Energie)
<http://www.srcae-basse-normandie.fr>



Région Martinique

Région Martinique – DREAL

SRCAE (Schéma Régional du Climat, de l'Air et de l'Energie)
<http://www.srcae-martinique.fr>



Région Picardie – DREAL

SRCAE (Schéma Régional du Climat, de l'Air et de l'Energie)
<http://www.srcae-picardie.fr> (plus en service)



Région Ile de France

Plan Climat
<http://www.climat-iledefrance.fr> (plus en service)
[authentification requise]



Région Aquitaine

Plan Climat Territorial
[intranet]



Région Guadeloupe

Politique énergétique – concertation
<http://www.guadeloupe-energie.gp>



Ville d'Anglet

Agenda21
<http://www.agenda21.anglet.fr>



Communauté de communes de Véziaux d'Aure

Agenda21

<http://www.veziauxdaure.fr/linea21/public/>



Pays du val d'adour – semadour

Agenda21 – Plan climat territorial

[intranet]

3.2 Educational structures



CFA Agricole d'Antibes

Agenda21 scolaire, projet pilote retenu par la région PACA.

<http://cfa.antibes.agenda21.free.fr>



Collège Blaise Pascal – Argenton Les Vallées

Agenda21 scolaire

<http://agenda21.collegeblaisepascal.com/public/>

3.3 Awards

In June 2009, Linea21 was awarded 1st prize of the *Trophées du Libre* (Open-Source Awards) in the Administration-Municipalities category.

* *Les Trophées du Libre* is a contest aiming at promoting innovating open-source software projects and granting them recognition and media coverage. The contest is open internationally to both professional and amateur open-source developments. (*Wikipedia*).