The aim of the LILIT project is to apply the philosophy and the innovation approach of “Living Labs” by stimulating the creativity of participants (users, employees, researchers, students and so on).

With this aim, the project will use four technical tools:

- a **dedicated software platform** allowing participants to interact each other, according to the “open innovation” paradigm, in the productive activities and in the process of product and service development;

- a **set of technologies and innovative tools** aimed at favoring the interaction among users, such as:
  - crowdsourcing applications and intellectual property right (IPR) tracking systems,
  - a Team Builder that selects best solvers from the LILIT community analyzing problem’s content

- **problem solving and concept design technologies** (based on the findings obtained from the scientific research in the field of functional design) supporting and driving the creativity of users in order to engender systemic innovation;

- **product and process innovation laboratories** (the new “Living Labs”) in different industry districts.
Create the account

1. Sign in the platform: click on the link [http://lilit.itc.unipi.it/SitePages/Welcome.aspx](http://lilit.itc.unipi.it/SitePages/Welcome.aspx) and click on the sign in button. There are three different ways to sign in LIUT: LILIT credential (new user registration in the bottom), or Linkedin access, or Facebook access. Please select only one registration option, then make sure you will ALWAYS log-in that way in further accesses.

![Figure 1: welcome page](image1)

![Figure 2: log in and register page](image2)

2. Compile your profile information: insert the work mail and modify the nick name if you wish. If your access is not in Linkedin mode, add your skills to allow the internal team builder tool to automatic search your profile.

![Figure 3: profile page](image3)

Now you are in the LILIT community, the community of creativity solvers. At this step you can wait an invitation to join a collaborative problem or you can submit your own discussion.
Join a discussion

1. After being chosen by the **team builder**, an invite notification will be sent at the provided registration email;
2. Log in LILIT and click on "My discussions". The discussion will be present among your “Pending invites”, and you can decide to accept or reject the proposal.
   Once you accept the proposal, the discussion appears among your “Accepted discussions”.
3. Now you can join the discussion, replying users’ posts and making use of the **Booster** tool clicking on the hints bottom placed on the top of each post.

![My Discussions](image)

*Figure 4: the three sections in “My discussion” page.*

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1. **Team builder**: a tool used by the moderator (i.e. the session’s owner), to build the collaborative team. The tool is based on an automatic engine that previously filters and shows only the solvers that fulfills the discussion characteristics.

2. **Booster**: a search engine that in turn searches within three major search engines (Google, Wikipedia and Freepatents) the most relevant results related to the post content.
1. The third section within the “my discussions” allows to create and manage your own discussion. After clicking “create new discussion” you will be asked to fill the discussion form. All required information is properly described in the form. After you completed the form, you will be redirected to the Team Builder, where you can select your dream team.

2. Once you will feel ready to open the discussion, click the “start” button besides the discussion title. At every moment, you can click on the “i” icon placed besides the discussion title to check session’s information, such as the team status (accepted or still pending invites), as well as to add other users to your team.

3. When you want to close the session, define a solution based on the discussion. There are two possibilities:
   a. **Single solution**: write a post with the text of your solution *preceded*, within the same post, by this simple text string: [SOLVED]. Please make sure you have properly written the string [SOLVED] right before the solution text. After this, the session will be closed without any possibility to add new posts (Example in Figure 5).
   b. **Multiple Solutions**: write as many posts as the number of solutions you defined. Each post will contain the text of the solution *preceded*, within the same post, by this simple text string: [PARTIAL]. Please make sure you have properly written the string [PARTIAL] right before the solution text (Example in Figure 6).

4. Now you can check the **IPR tracking results** by clicking on the little Pie Chart Symbol besides the discussion title. Results are reported by means of a pie chart representing the real percentage of contribution of each solver to the final solution. In case of definition of multiple solutions, there will be appearing as many pie charts as the number of solutions defined.
Examples of IPR (Intellectual Property Rights) Tracking results.

Technical problem solving session

- Number of solvers: 6
- Session duration: 7 days
- Number of contributions: 25

IPR tracking result is shown in table 1 and figure 6.

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<thead>
<tr>
<th>solver</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>solver 1</td>
<td>27%</td>
</tr>
<tr>
<td>solver 2</td>
<td>3%</td>
</tr>
<tr>
<td>solver 3</td>
<td>16%</td>
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<tr>
<td>solver 4</td>
<td>34%</td>
</tr>
<tr>
<td>solver 5</td>
<td>0%</td>
</tr>
<tr>
<td>solver 6</td>
<td>20%</td>
</tr>
</tbody>
</table>

Table 1

Brainstorming session

- Number of invites: 16
- Number of solvers: 7
- Session duration: 7 days
- Number of contributions: 30

IPR tracking result is shown in table 2 and figure 7

<table>
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<th>solver</th>
<th>%</th>
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<tbody>
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<tr>
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<td>22%</td>
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<tr>
<td>Solver 5</td>
<td>5%</td>
</tr>
<tr>
<td>Solver 6</td>
<td>10%</td>
</tr>
<tr>
<td>Solver 7</td>
<td>0%</td>
</tr>
</tbody>
</table>

Table 2

Figure 6: pie chart as presented in the old version

Figure 7: the new representation of the pie chart.