**Flow charts of actors and competencies**

**Goal:** Identify actors with the capability to set up a carbon database for a specific area or pilot country.

**Key roles in database implementation**

- **International experts**
  - Introduce tools and methods
  - Provide international data

- **Scientific and technical experts**
  - Consult, contract with
  - Collect and coordinate user feedback
  - Produce local data

- **Support: gaining competence, expertise**
- **Public and private financing**

- **Steering committee**
  - Sets rules of operation

- **Legitimacy (institutional actors)**

- **Owner: administration, project management**

- **User representation**

- **Implementation assistance**
  - Recourse to
  - Maintain and develop
  - Relay user needs and feedback

- **Carbon database**
  - Make decisions
  - Exploit data, encourage the initiative

- **Database use**

**Key:**
- Scientific expertise
- Project management expertise
- Users
- Other stakeholders
### Table: Actors and competencies required for deployment of a national/regional carbon database

<table>
<thead>
<tr>
<th>Theoretical roles</th>
<th>Areas of competence</th>
<th>Activities</th>
<th>Potential actors</th>
<th>Advantages/Drawbacks</th>
</tr>
</thead>
</table>
| **Ownership**     | - Legitimacy in terms of knowledge, impartiality and background that is relevant to the database initiative and missions  
                   - Technical competence concerning the low carbon transition (trajectories, adaptation, etc)  
                   - Technical competence in the creation of scientific databases  
                   - Financial resources for long-term project support (assistance and maintenance services, etc)  
                   - Capacity to manage a project with multiple partners  
                   - Human resources assigned to the project for a long period (person. days to be allocated) | - Bring together actors to focus on emission estimations and the low carbon transition  
                   - Provide data to build the carbon database (emission factors, studies, etc)  
                   - Manage and develop the carbon database | | |
| **Support**       | - Knowledge of carbon accounting topics  
                   - Work with organizations and users | - Communicate and publicize database use and results, hold events to promote the database  
                   - Answer requests related to database use and objectives  
                   - Manage a community  
                   - Work with actors to expand their competencies | | |
| **Institutional actors** | - Institutional backing for sectors covered by the carbon database  
                   - Mandate to develop and implement public GHG emission reduction policy | - Commission studies to produce data and build the database  
                   - Foster emergence of a low carbon transition strategy  
                   - Provide institutional backing for the carbon database via participation in the steering committee | | |
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<tbody>
<tr>
<td><strong>Financing</strong></td>
<td>- Financing via equity funds or dedicated budget line items</td>
<td>- Finance database management and maintenance</td>
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<tr>
<td>National (public) subsides, green/climate funds, regional and international financing mechanisms</td>
<td>- Partn</td>
<td>erships</td>
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<td><strong>Scientific and technical experts</strong></td>
<td>- Life cycle assessment/inventory</td>
<td>- Supply data for emission factor (EF) calculations</td>
<td>- Recalculate data from other databases or literature to produce EFs</td>
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<tr>
<td>Regional/national statistics offices and data repositories</td>
<td>- Statistics</td>
<td>- Identify data sources for EF calculations</td>
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<tr>
<td>- Calculation of activity data and/or GHG emissions</td>
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<tr>
<td><strong>User representation</strong></td>
<td>- Representatives of different categories of users</td>
<td>- Relay user needs and feedback, on occasion contribute EFs to database</td>
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<td>Business sector federations and representatives, nonprofit groups</td>
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<td><strong>Third-party stakeholders</strong></td>
<td>- Knowledge of local actors</td>
<td>- Work with and train actors on energy and climate transition issues</td>
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<td>- Communication to the general public on environmental issues and sustainable development</td>
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<td>- Capacity to lead and coordinate a group</td>
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<tr>
<td>- Expertise in carbon accounting and stakes for the international community</td>
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<tr>
<td>- Creation of methods and tools</td>
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<tr>
<td><strong>International experts</strong></td>
<td>- Development of methods and tools</td>
<td>- Help local participants expand their competencies</td>
<td>- Provide advice on carbon accounting</td>
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<tr>
<td>Actors qualified in quantitative assessment and reporting of GHG emissions, with knowledge of international standards (ISO, etc) and prepared to share their experience</td>
<td></td>
<td>- Contribute international data (generic EFs)</td>
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