

# The IRENA Project Navigator

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IRENA/IITC

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Praia, Cape Verde



IRENA  
Project Navigator



# Content Outline

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- Background of the IRENA Project Navigator
- What is the IRENA Project Navigator?
- Who will benefit from the Project Navigator?
- Components of IRENA Project Navigator
- Next Steps
- Outreach and interaction with IRENA Member Countries

## Background of the IRENA Project Navigator

What is the IRENA Project Navigator?

Who will benefit from the Project Navigator?

Components of IRENA Project Navigator

Next Steps

Outreach and interaction with IRENA Member Countries

# Project Navigator Background

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## Project Navigator Background

### The Challenge of Renewable Energy Technology (RET) projects

- Failures to prove bankability to funding institutions
- Insufficient knowledge on project proposal development
- Higher project development costs
- High risk of project failure

IRENA member countries called for a solution to make project development transparent and explicit

### IRENA is working on:

- Best practices in project development tools
- Facilitating access to finance



● Background of the IRENA Project Navigator

● **What is the IRENA Project Navigator?**

● Who will benefit from the Project Navigator?

● Components of IRENA Project Navigator

● Next Steps

● Outreach and interaction with IRENA Member Countries

# What is the IRENA Project Navigator?

## Objectives

- Improvement of RET project proposals
- High quality implementation of RET project proposals
- Adaptation to the project's specific conditions, aims and framework
- Efficient use of funds

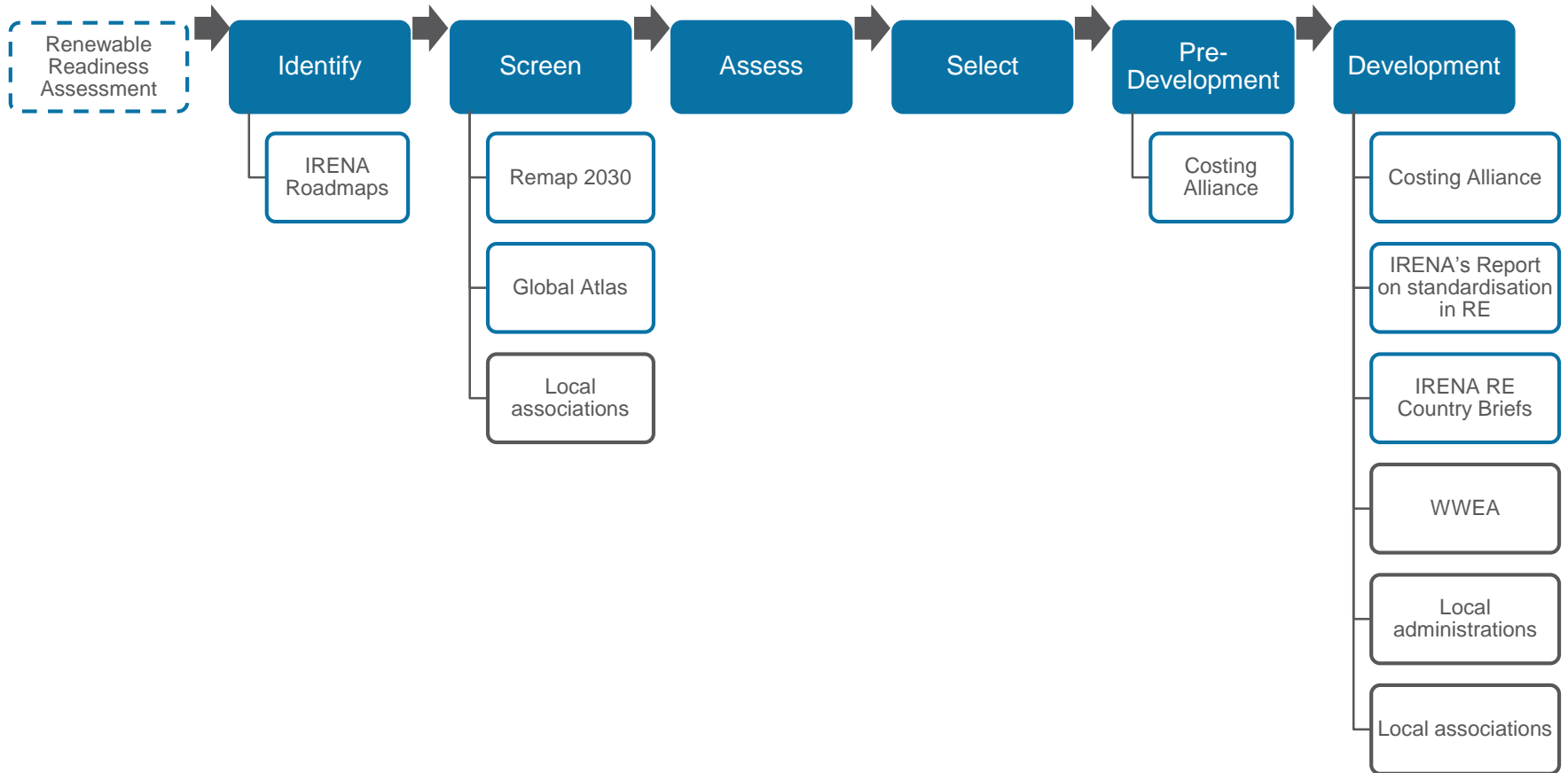
## Scope: IRENA Project Navigator includes

- All RETs
- Different finance types: grants, loans, equity
- Project sizes: from individual use to utility scale projects
- Global: all geographical regions



## What is the IRENA Project Navigator?

### Modular Approach



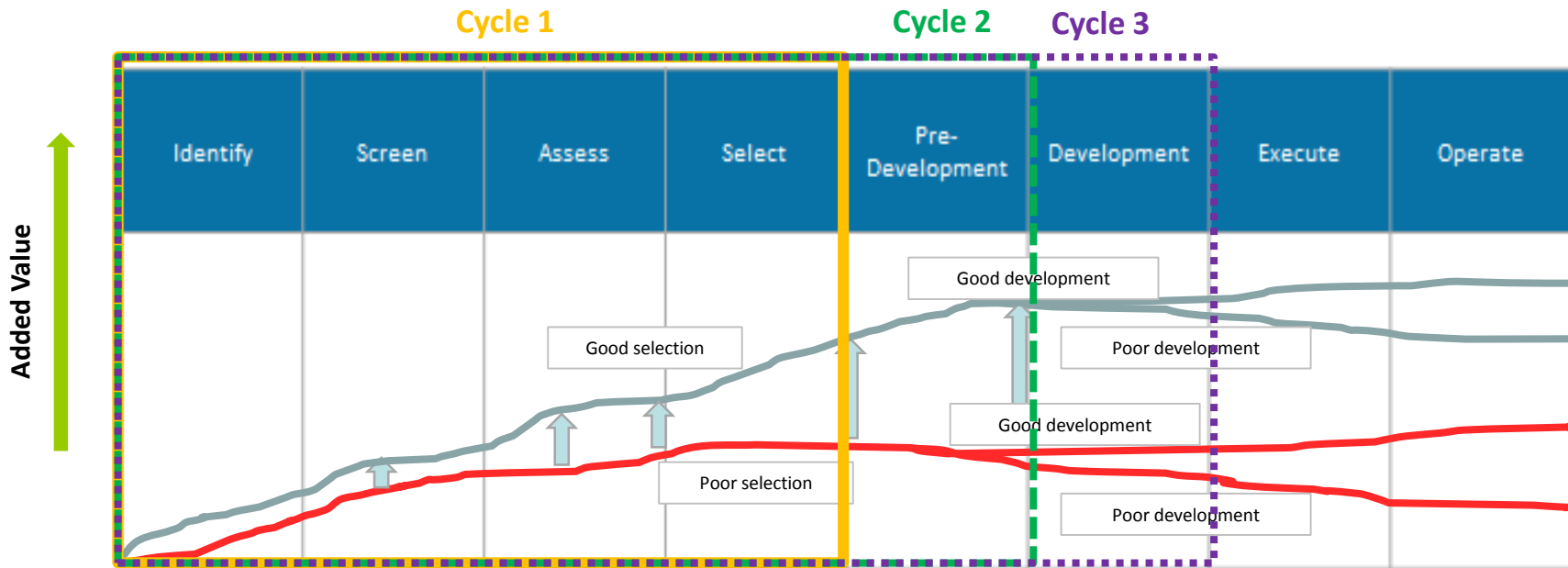
# What is the IRENA Project Navigator?

## Project development in cycles

Cycle 1: Consideration of project alternatives and selection of the best idea

Cycle 2: Clarification of project environment and background

Cycle 3: Setting of all development factors required for implementation



Source:

• Adapted from: [Accenture](http://www.accenture.com/us-en/Pages/service-consulting-value-realization-summary.aspx): Value Realization. October 04, 2013 <<http://www.accenture.com/us-en/Pages/service-consulting-value-realization-summary.aspx>>



● Background of the IRENA Project Navigator

● What is the IRENA Project Navigator?

● **Who will benefit from the Project Navigator?**

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# Who will benefit from the IRENA Project Navigator?

## Member Countries



- Compliance with stakeholders requirements
- Higher quality of RET projects
- Lower implementation costs
- Understandable administrative processes
- Efficient administration
- Capacity building

## Project Developers



- Best practices
- Identification of needs/gaps
- Easier and faster funding opportunities
- Higher quality of RET projects

## Municipalities



- Capacity building
- Spread social awareness
- Decision-making and investment participation

## Academia



- RET project planning guidance
- Input for curriculum development
- Capacity building

## Financing Sector



- Easier and faster project evaluation
- Identification of bankable projects

Sources:

- [Conserve-Energy-Future](http://conserve-energy-future.com/Images/SolarEnergy_Advantage.jpg). July 5, 2013; [http://conserve-energy-future.com/Images/SolarEnergy\\_Advantage.jpg](http://conserve-energy-future.com/Images/SolarEnergy_Advantage.jpg)
- [Ecodyfi](http://www.ecodyfi.org.uk/images/turbineandshareholders.jpg). July 5, 2013; <http://www.ecodyfi.org.uk/images/turbineandshareholders.jpg>
- [Cloudfront](http://dqbasmyouzt12.cloudfront.net/content/images/articles/coins-310x224.png). July 5, 2013; <http://dqbasmyouzt12.cloudfront.net/content/images/articles/coins-310x224.png>
- OIX. December 4, 2013; <http://peshawar.oix.com.pk/academic-learning-centre-lid-153763443>

Background of the IRENA Project Navigator

What is the IRENA Project Navigator?

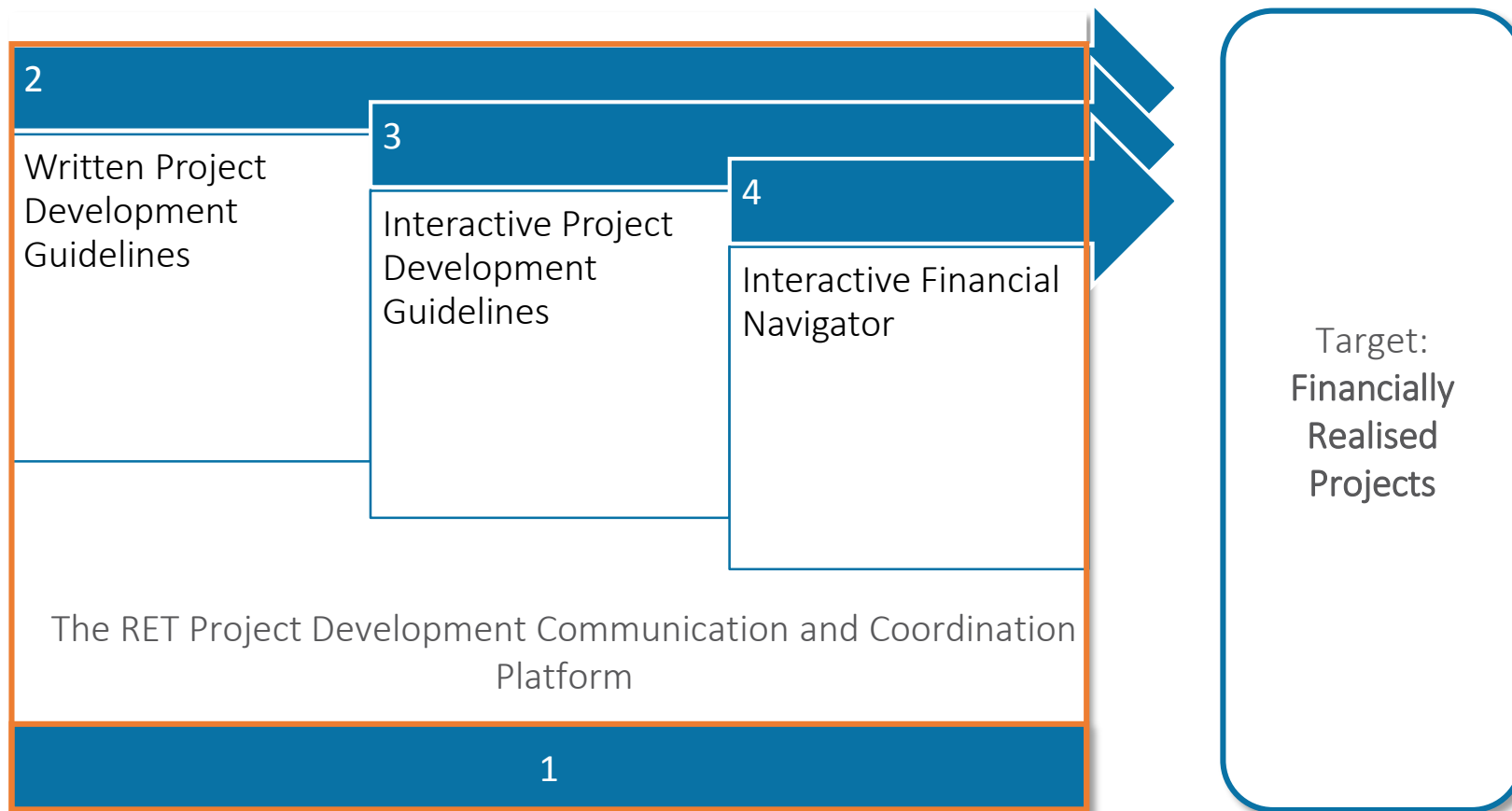
Who will benefit from the Project Navigator?

Components of IRENA Project Navigator

Next Steps

Outreach and interaction with IRENA Member Countries

# Components of the IRENA Project Navigator



# The RET Project Development Communication and Coordination Platform

Home

Project Navigator Learning section

Start a project

Financial Navigator

My account

## Welcome to IRENA Project Navigator!



- To learn more about the renewable energy project development process and to develop bankable project proposals, please enter the Project Navigator
- When looking for funding opportunities, browse the IRENA Financial Database using the Financial Navigator
- If you are a project developer, you can create a workspace online and track your project development progress.

Choose from the Quick Access tiles below!

## News

### September, 2014

Project Navigator Workshop in Cape Verde [[See the flyer](#)]

### August, 2014

Project Navigator beta test launched

Learning section

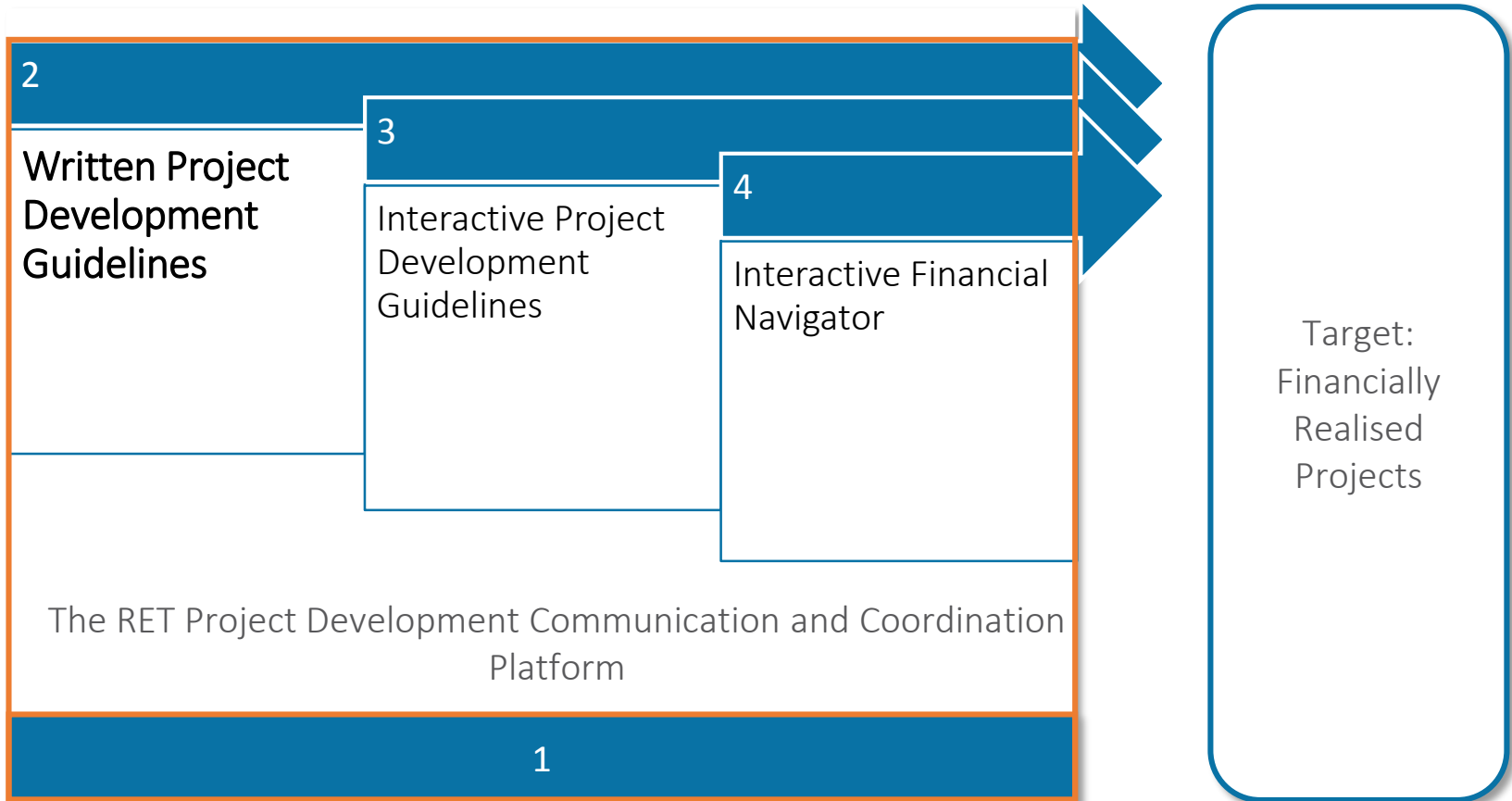
Learn about project development

Start a project

Create a project workspace

Financial Navigator

Find funding opportunities



# Interactive Project Development Guidelines

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# Content of the Project Development Guidelines

- Socio-economic
- Technical
- Legal and Commercial
- Organizational
- Political

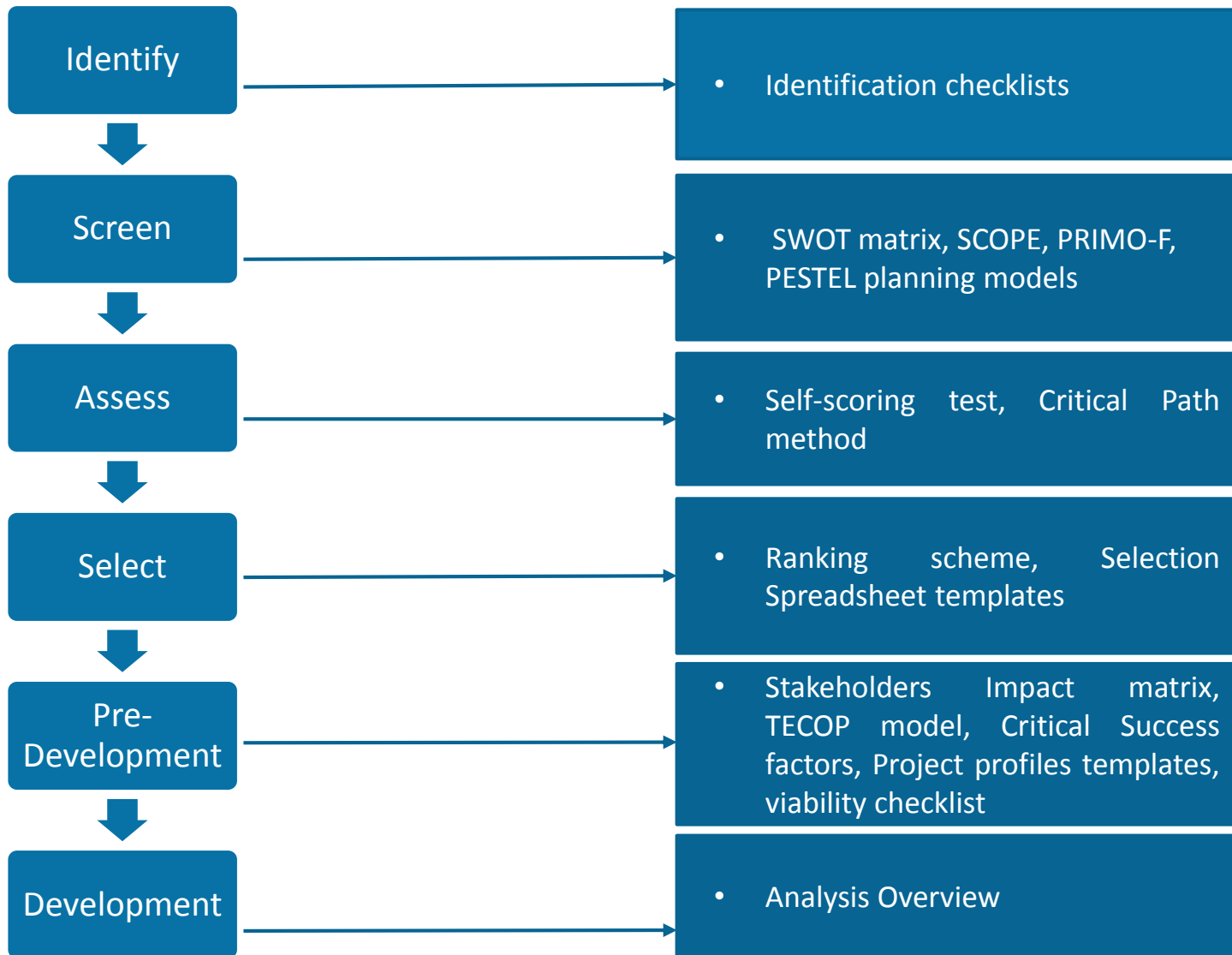


Source:

- [Pelamis Wave Power](http://www.pelamiswave.com/news/news/127/Pelamis-selected-for-1.4m-ETI-wave-power-project): <http://www.pelamiswave.com/news/news/127/Pelamis-selected-for-1.4m-ETI-wave-power-project>
- [Siemens](http://www.renewableenergyworld.com/rea/images/siemens-expands-solar-thermal-portfolio-with-solel-acquisition/50392): <http://www.renewableenergyworld.com/rea/images/siemens-expands-solar-thermal-portfolio-with-solel-acquisition/50392>
- [Torresol Energy Investments](http://www.torresolenergy.com/TORRESOL/home/en): <http://www.torresolenergy.com/TORRESOL/home/en>
- [SolarBawn](http://solarbawn.com.au/news/): <http://solarbawn.com.au/news/>

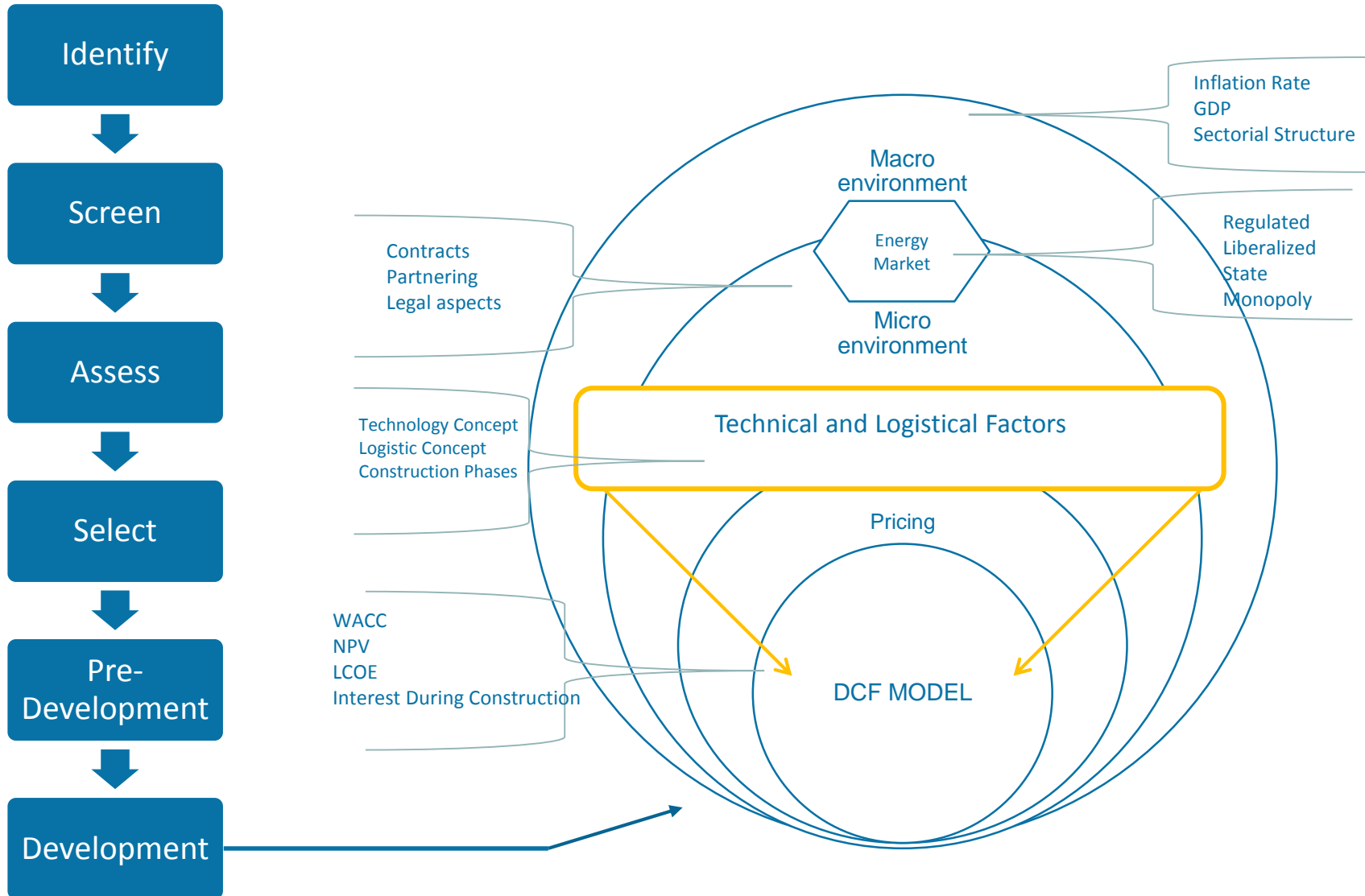


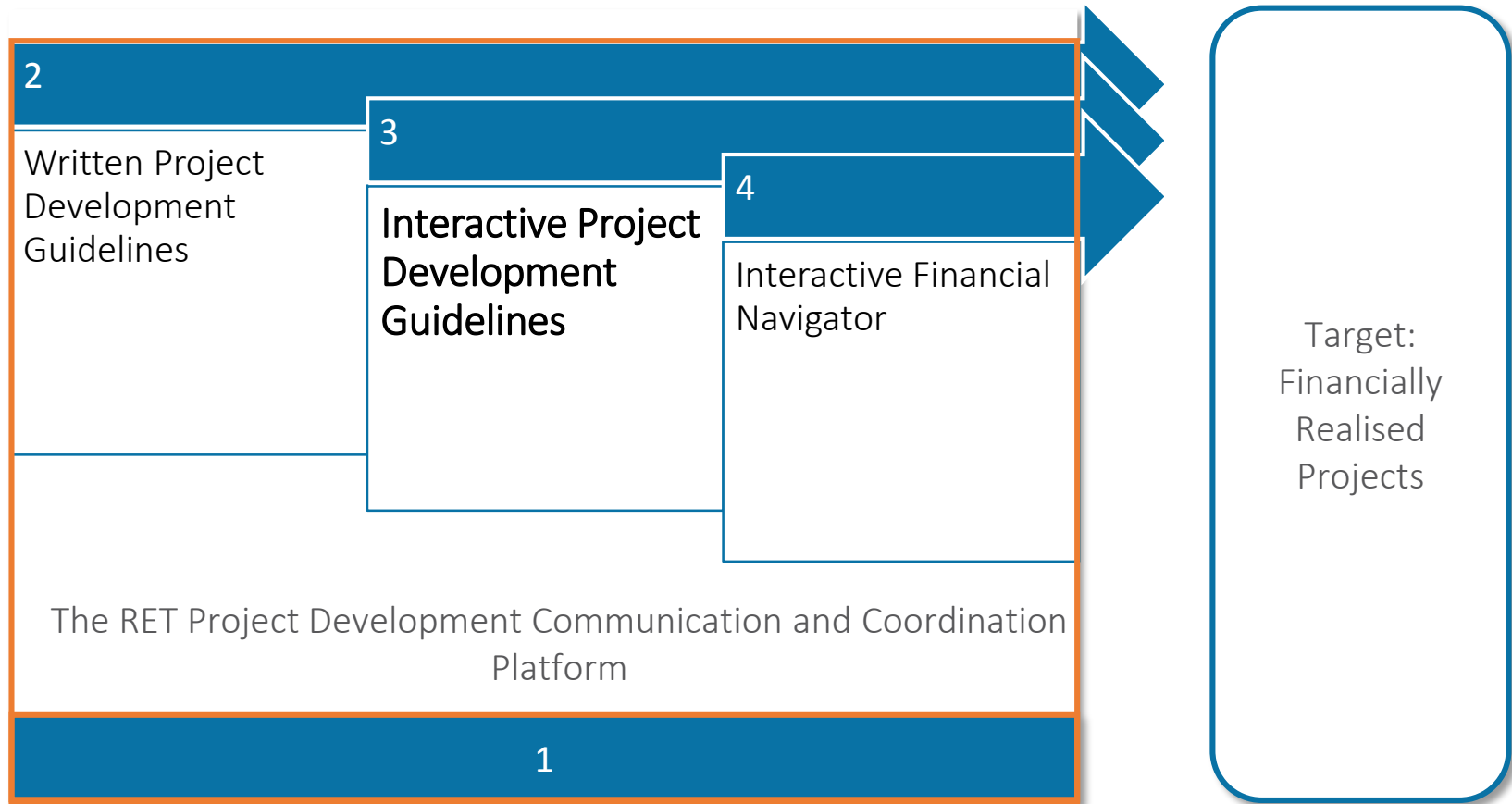
# Content of the Project Development Guidelines



Source: NREL

# Content of the Project Development Guidelines





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# Interactive Project Development Guidelines

## Create your workspace



Home > Create a project workspace

### What is a project workspace?

A project workspace allows you to

- prepare your project online,
- keep track of your development progress,
- identify gaps in your project development,
- use the tools of the development process online and
- export your work with Microsoft Office templates from IRENA for further processing

### How do I create a project workspace?

In order to create your own workspace, simply use the creation form on the right. You need to specify the region and type of technology of your project in order to get tailored guidance through the project management process as it may be different for different regions or renewable energy technologies.

### Create a project workspace



You already have created 1 projects. You can create 5 more project(s).

**Title \***

**Region**

**Technology**

### List of project workspaces

Project	Region	Technology	Created by	Delete
Demo Project	 Germany	 Wind power	johannes.junck@bearingpoint.com	<a href="#">delete</a>

# Interactive Project Development Guidelines

## Navigation through the development stages



Home > Project Workspace > Pre-Development phase

### Definition

"The Pre-Development phase establishes the project requirements and concept and provides the basis for the project budget and its approval."

### Objectives / Action plan

- Obtain relevant project data for preparation of technical concept and contractual structure.
- "Starting the project Pre-Development by analysing the stakeholders and their context helps to ensure that the project is adapted to their needs and capacities. However, in many cases it is useful to start with the problem in order to identify all the stakeholders concerned."



### More information and learning section

See [Learning section](#) for a more detailed description and further information on the Pre-Development phase.

### Tools in this phase:

Tool	Completed
<a href="#">Stakeholder Analysis</a>	<input checked="" type="checkbox"/>
<a href="#">Stakeholder Analysis</a>	<input checked="" type="checkbox"/>
<a href="#">TECOP-Assessment</a>	<input checked="" type="checkbox"/>
<a href="#">Critical Success Factors</a>	<input checked="" type="checkbox"/>

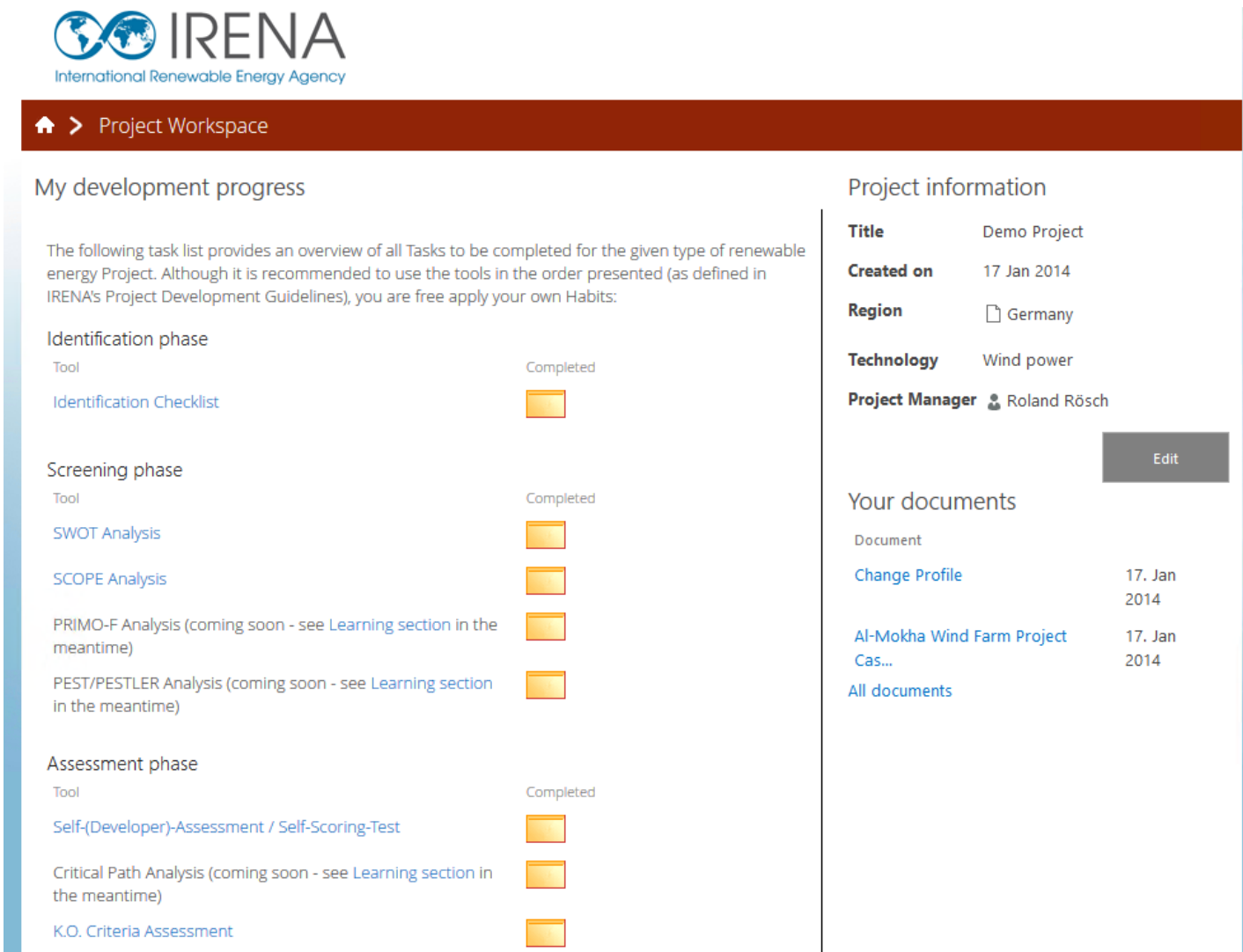
### Project information

<b>Title</b>	Small PV plant
<b>Created on</b>	17 Jan 2014
<b>Region</b>	 Tonga
<b>Technology</b>	Wind power
<b>Project Manager</b>	 Roland Rösch

Edit

# Interactive Project Development Guidelines

## Track the progress of your project



**IRENA**  
International Renewable Energy Agency

🏠 > Project Workspace

### My development progress

The following task list provides an overview of all Tasks to be completed for the given type of renewable energy Project. Although it is recommended to use the tools in the order presented (as defined in IRENA's Project Development Guidelines), you are free apply your own Habits:

Phase	Tool	Completed
Identification phase	Identification Checklist	Completed
Screening phase	SWOT Analysis	Completed
	SCOPE Analysis	Completed
	PRIMO-F Analysis (coming soon - see <a href="#">Learning section</a> in the meantime)	Completed
	PEST/PESTLER Analysis (coming soon - see <a href="#">Learning section</a> in the meantime)	Completed
Assessment phase	Self-(Developer)-Assessment / Self-Scoring-Test	Completed
	Critical Path Analysis (coming soon - see <a href="#">Learning section</a> in the meantime)	Completed
	K.O. Criteria Assessment	Completed

### Project information

<b>Title</b>	Demo Project
<b>Created on</b>	17 Jan 2014
<b>Region</b>	📍 Germany
<b>Technology</b>	Wind power
<b>Project Manager</b>	👤 Roland Rösch

[Edit](#)

### Your documents

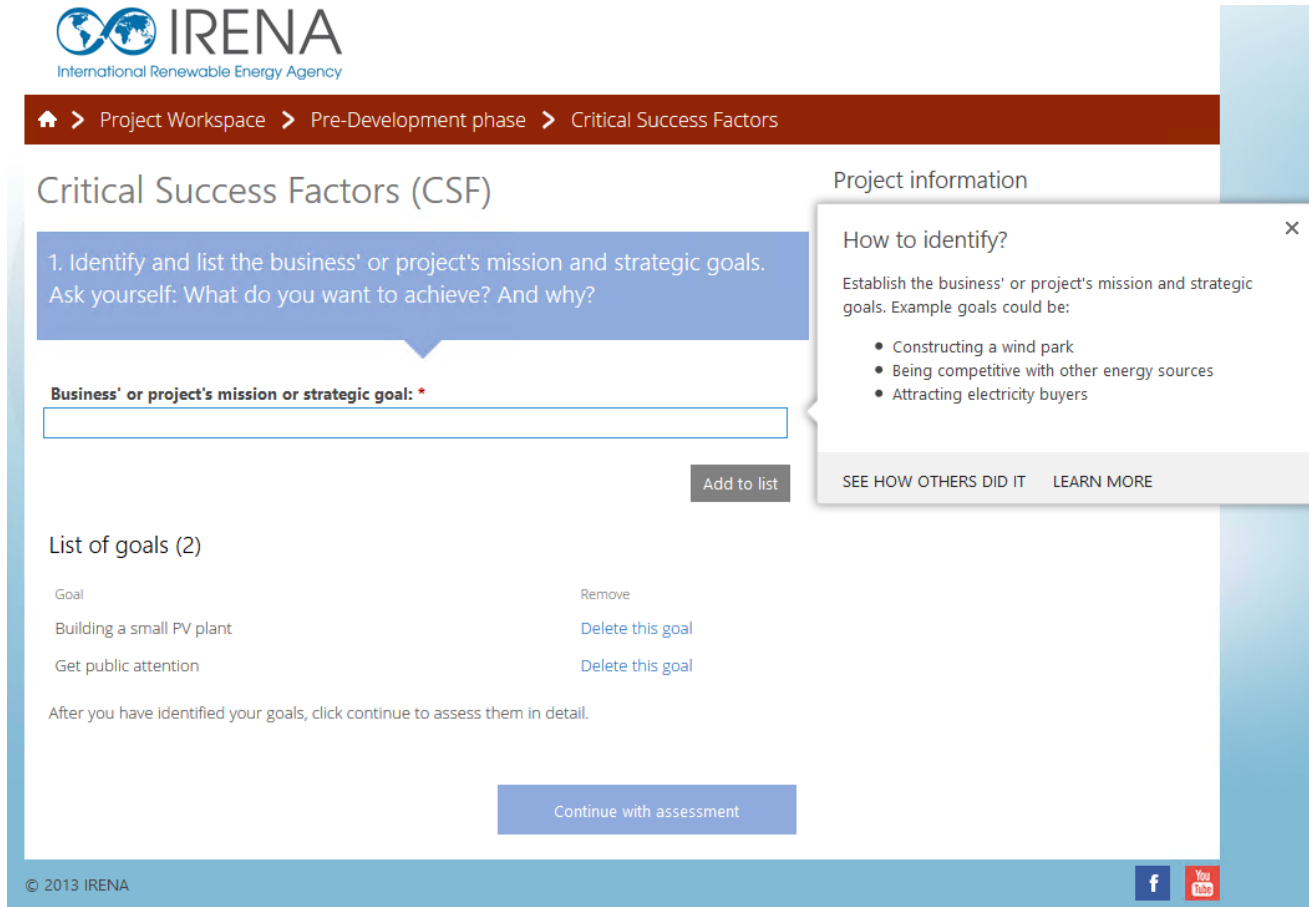
Document	Date
<a href="#">Change Profile</a>	17. Jan 2014
<a href="#">Al-Mokha Wind Farm Project Cas...</a>	17. Jan 2014


[All documents](#)

# Interactive Project Development Guidelines

## Use the tool: Step-by-Step

1



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Home > Project Workspace > Pre-Development phase > Critical Success Factors

### Critical Success Factors (CSF)

1. Identify and list the business' or project's mission and strategic goals.  
Ask yourself: What do you want to achieve? And why?

**Business' or project's mission or strategic goal: \***

[Add to list](#)

#### List of goals (2)

Goal	Remove
Building a small PV plant	<a href="#">Delete this goal</a>
Get public attention	<a href="#">Delete this goal</a>

After you have identified your goals, click continue to assess them in detail.

[Continue with assessment](#)



#### Project information

##### How to identify?

Establish the business' or project's mission and strategic goals. Example goals could be:

- Constructing a wind park
- Being competitive with other energy sources
- Attracting electricity buyers

[SEE HOW OTHERS DID IT](#) [LEARN MORE](#)

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# Interactive Project Development Guidelines

## Use the tool: Step-by-Step

2

### Critical Success Factors (CSF)

2. For each strategic goal, ask, "What area of business or project activity is essential to achieve this goal?" The answers to this question are the candidate CSFs.

You must specify at least one candidate CSF per goal.

Select a goal to assess

Building a small PV plant  Get public attention

What area of business is indispensable for achieving the targets?

- we need to get all permits from the authorities, which include ...

Add to list

### Project information

#### What to consider?

For each strategic goal, ask, "What area of business or project activity is essential to achieve this goal?" The answers to this question are the candidate CSFs. An example:

For the goal

- **Constructing a wind park**

an adequate candidate CSF could be

- **Getting all permissions**

SEE HOW OTHERS DID IT    LEARN MORE

## Use the tool: Step-by-Step

3

3. Evaluate the list of candidate CSFs to find the absolutely essential elements for achieving success. These are the Critical Success Factors

Goal	Candidate CSF	Remove
Building a small PV plant	we need to get all permits from the authorities, which include (...)	Delete this candidate

Back to goals    View results

Project Workspace > Pre-Development phase > Critical Success Factors

### Critical Success Factors (CSF)

Assessing candidate CSF

we need to get all permits from the authorities, which include (...)

Decide whether this candidate is a critical success factor.

If you choose this candidate a CSF, describe how you are planning to manage/monitor it.

Is this candidate CSF an absolutely essential element for achieving success? Describe.

Decide on the resulting CSF

Identify how the CSF will be monitored and measured:

Back to candidate list    Save

## Use the tool: Step-by-Step

Export as Word

Save

# 4



**Project:** Small PV plant

**Project Phase:** Pre-Development

**Tool:** Evaluation of Critical Success Factors

Strategic goal	Assessment and candidate CSF	Resulting CSF	Monitoring
Building a small PV plant	Getting all permissions	Obtain needed permits	Documents, permits
Get public attention	Clear goal that will be ensured by advertisement	Plan advertisement	Evaluate advertisement reach

# Interactive Project Development Guidelines

## Store your documents



Home > Project Workspace > Project Documents

### Your documents

In this section you can store and manage your Project development documents. You can store up to 20 MegaBytes of documents.

Use this Document Store for all kinds of documents, e.g. filled out templates, your own documents or even images.

Document	Created
Contact persons.txt	1/17/2014 10:23:49 PM
Environmental assessment nptx	1/17/2014 10:24:29 PM

### Project information

<b>Title</b>	Demo Project
<b>Created on</b>	17 Jan 2014
<b>Region</b>	Germany
<b>Technology</b>	Wind power
<b>Project Manager</b>	Roland Rösch

[Edit](#)

### Upload files

Use the following form

No file selected

- View Properties
- Edit Item
- Edit in Microsoft PowerPoint
- Delete
- Check out

# Interactive Project Development Guidelines

## Help features



Home > Learning section > Project management > Screen > SWOT Analysis

### Tool: SWOT

(Strengths - Weaknesses - Opportunities - Threats)

Internal to the project organisation  
S.  
the absence of key capacities and resources, personnel, appropriate

**Helpful**  
(to realise the project)

**Harmful**  
(to realise the project)

**Internal**  
(Attributes of the Project team)

**S**  
Strengths

**W**  
Weaknesses

**External**  
(Attributes of the Project environment)

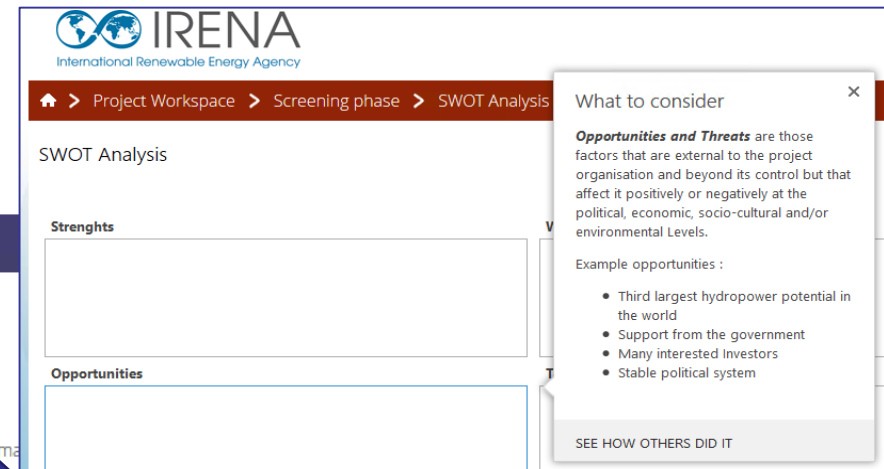
**O**  
Opportunities

**T**  
Threats

Detailed information

Find examples and case studies

Get templates



IRENA  
International Renewable Energy Agency

Home > Project Workspace > Screening phase > SWOT Analysis

SWOT Analysis

**Strengths**

**Opportunities**

**What to consider**

**Opportunities and Threats** are those factors that are external to the project organisation and beyond its control but that affect it positively or negatively at the political, economic, socio-cultural and/or environmental Levels.

Example opportunities :

- Third largest hydropower potential in the world
- Support from the government
- Many interested investors
- Stable political system

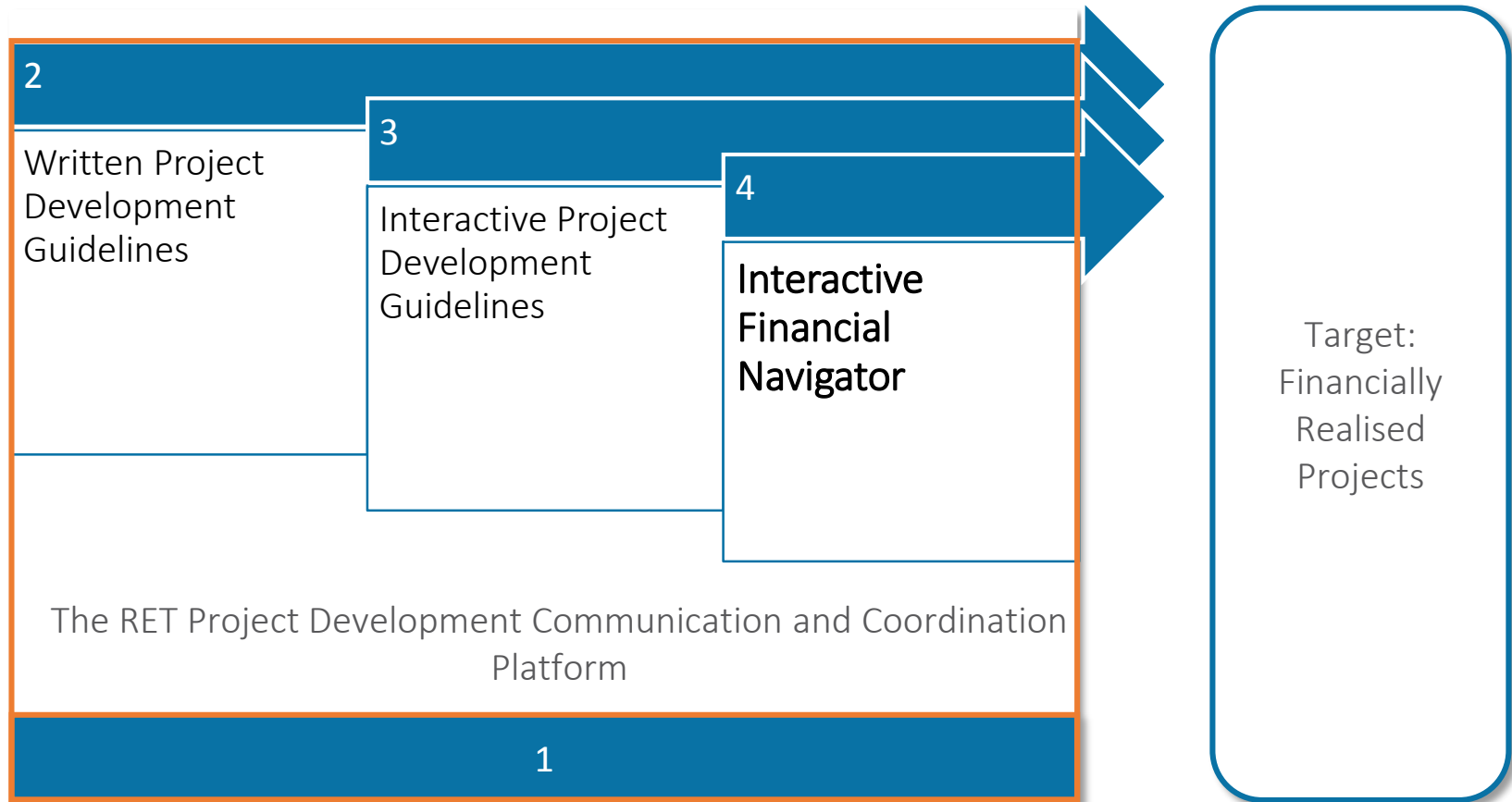
SEE HOW OTHERS DID IT

### How others did it

Document  
[SWOT Analysis - Small Hydropower Plant in India](#)

### Templates

Template  
There are no items to display in this view.



# Interactive Project Development Guidelines

Home

Project Navigator Learning section

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Learning section

Learn about project development

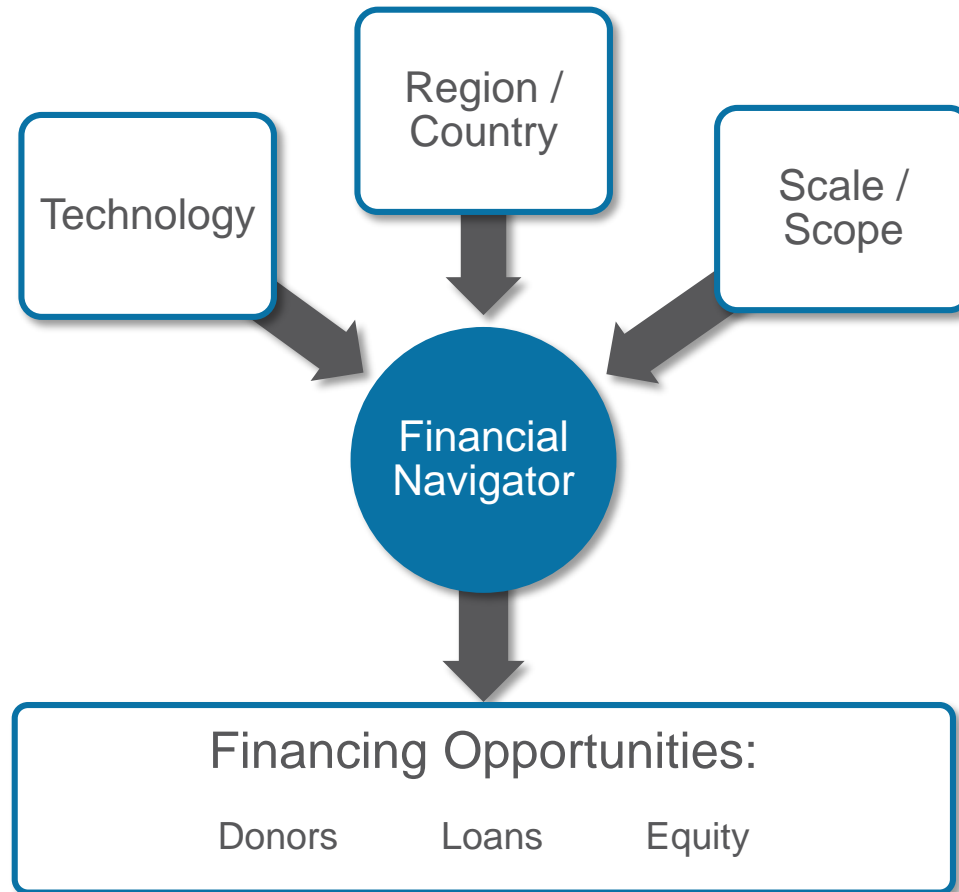
Start a project

Create a project workspace

Financial Navigator

Find funding opportunities

# Financial Navigator





# Financial Navigator

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## Funds

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- 1 ACP-EU Energy Facility
- 2 Climate Catalyst Fund - IFC
- 3 Global Climate Partnership Fund
- 4 Global Energy Efficiency and Renewable Energy Fund (GEEREF) - EIB
- 5 Clean Technology Fund - World Bank
- 6 Strategic Climate Fund - AfDB
- 7 Orio - RVO
- 8 ELENA - EIB
- 9 Symbid
- 10 Vietnam Green Credit Trust Fund
- 11 Ecowas Renewable Energy Facility (EREF) - ECREEE
- 12 Nordic Climate Facility - NEFCO
- 13 ADB Clean Energy Financing Partnership Facility (CEFPF)
- 14 Green Africa Power (GAP)
- 15 EEP Africa - Energy and Environment Partnership
- 16 Central Asia Renewable Energy Fund
- 17 Global Environmenty Facility
- 18 Norfund
- 19 NEFCO Carbon Fund (NeCF)
- 20 Fair Climate Fund
- 21 Sustainable Energy Fund for Africa (SEFA) - AfDB
- 22 AusAid
- 23 IFC InfraVentures

# Financial Navigator




























Home > Financial Navigator > Funding details: ACP-EU Energy Facility

## General information

### General description

The Energy Facility is a co-financing instrument which was established in 2005 in order to support projects on increasing access to sustainable and affordable energy services for the poor living in rural and peri-urban areas in African, Caribbean and Pacific (ACP) countries. Its objectives are set by the EU development agenda.




### Geographical coverage

 Africa  Antigua and Barbuda  Bahamas  Barbados  Belize  Dominica  Dominican Republic  Grenada  
 Haiti  Jamaica  Saint Kitts and Nevis  Saint Lucia  Saint Vincent and the Grenadines  
 Trinidad and Tobago  Suriname  Fiji  Kiribati  Marshall Islands  Micronesia (Federated States of)  
 Nauru  Palau  Papua New Guinea  Samoa  Solomon Islands  Tonga  Tuvalu  Vanuatu

### Details on geographical coverage

All ACP countries

### Technology coverage

 Solar power  Wind power  Geothermal power  Hydropower  Ocean Energy

### Details on technology coverage

All renewables except biofuels. There are no limitations to technologies, as long as they contribute to the overall goals of the fund.

### Type of fund

Grants only.

### Size of grant

4-8 M Eur though sometimes smaller amounts are possible too.

## Core funding information

### Name of fund

ACP-EU Energy Facility

### Administering organisation(s)

European Commission

### Funding organisation(s)

The budget for the infrastructure facility comes from the EDF (European Development Fund) to which EU 28 Member States contribute, some more than others.

### Link

[Website](#)

### Total fund size (M USD equivalent)

571

### Comments on total fund size

### Initial launch of the programme or fund

2005

### Contact

Europeaid-energy-facility@ec.europa.eu

### Reporting / example projects

<http://www.energyfacilitymonitoring.eu>

## Funding requirements

### Applicant requirements

ACP (Africa, Caribbean, Pacific) States and ACP/EU non-State actors. The latter includes NGOs, civil society, private sector organisations, communities and authorities, and public service bodies

### Cofunding required?

Yes

# Financial Navigator

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## Objectives:

- Provide up to date information about the existing RE fund
- Inform RE project developers about the funds requirements and documents needed to be prepared
- Provide recommendation, tips and past case study examples

## Burdens:

- Collecting all the information
- Maintaining the information up to date

● Background of the IRENA Project Navigator

● What is the IRENA Project Navigator?

● Who will benefit from the Project Navigator?

● Components of IRENA Project Navigator

● **Next Steps**

● Outreach and interaction with IRENA Member Countries

## Next Steps: 2014/2015

- Technical Concepts:
  - 2014: Photovoltaic, Small hydro
  - 2015: Geothermal, Biomass, Concentrated Solar Power, Micro-grid applications
- 7 Pilot studies in cooperation with member countries and with developers in member countries
- Regional Adaptation
  - 2014: Adapted version for Small Island Development States (SIDS) and West Africa
  - 2015: Other regional adaptation (LAC, MENA, Pacific regions)
- Constant and continuous improvement of the tool



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# Outreach and Interaction with IRENA member countries

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- Training workshops on how to use the IRENA Project Navigator
- Gain feedback and thereby continuously improving IRENA Project Navigator
- Regional adaptation in cooperation with member countries and finance institutions
- Increase the number of interactive tools

Source: [NREL](http://images.nrel.gov/viewphoto.php?albumid=207405&imageid=6326315&page=3&imagepos=38&sort=&sortorder=) <http://images.nrel.gov/viewphoto.php?albumid=207405&imageid=6326315&page=3&imagepos=38&sort=&sortorder=>



Thank you for your attention !  
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