

# IDP

## Integrated Design Process

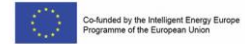


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EURAC research



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# Integrated Design Process



## AGENDA

1. What it is
2. Why do we use it?
3. How it works
4. Who is involved?



# What is IDP?



# What is an IDP?

It is a participative approach !!!

IDP is a **multidisciplinary and collaborative process** where the work team is composed of **different stakeholders** with **differing knowledge** and experiences.

They **work together** to define, analyse and evaluate different solutions and possible interactions.



# IDP

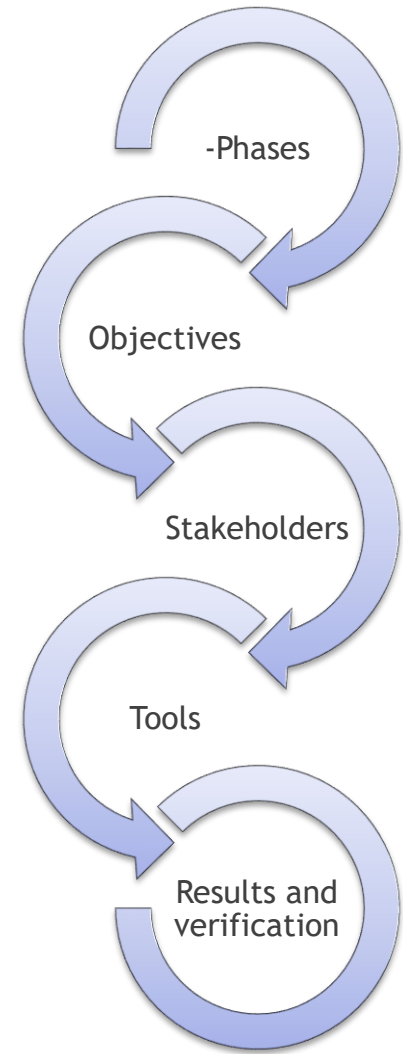


Rethinking the project process!

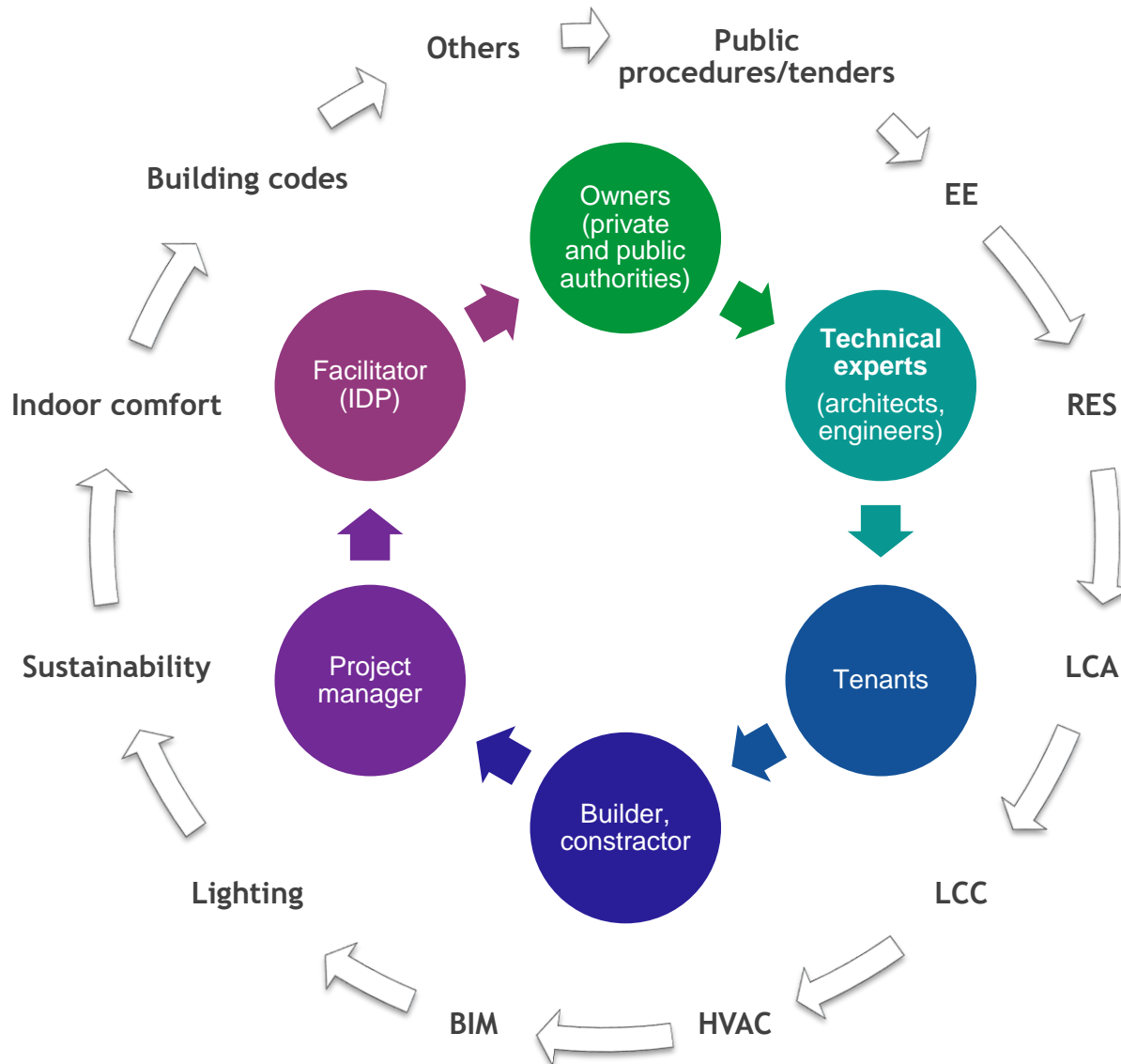
# IDP



Rethinking the project process!



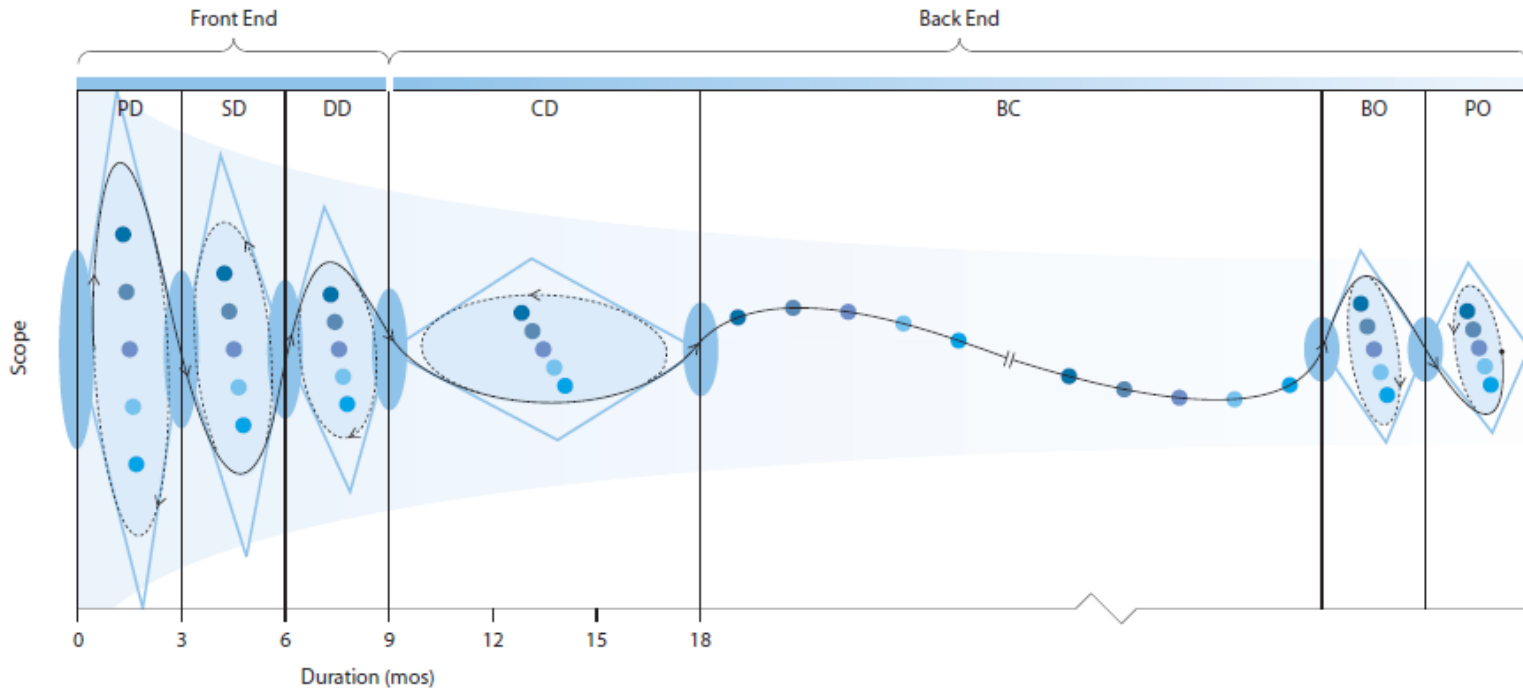
# IDP team









The **core project team's** structure, composition and member roles will be changed every project!!!

IDP team will be identified in relation to the project needs!

# DECISION PROCESS



-  Project Constraints
-  Exploratory Design Process
-  All Team Workshop
-  Focused Team Workshops (water, energy, materials, etc)
-  Iterative Process
-  Additional Iterations as necessary

- |    |                        |    |                                      |
|----|------------------------|----|--------------------------------------|
| PD | Pre-design             | BC | Bidding, Construction, Commissioning |
| SD | Schematic Design       | BO | Building Operation (start up)        |
| DD | Design Development     | PO | Post-Occupancy (long term)           |
| CD | Construction Documents |    |                                      |

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# HOW TO APPLY IDP?

The most important principle for a successful IDP is the close collaboration between building professionals and building owner (and/or tenants).

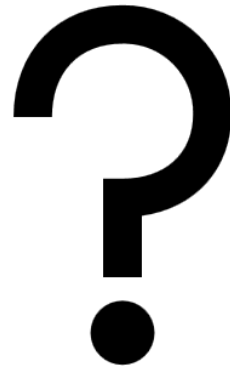
Ideally, the IDP team includes all relevant disciplines and stakeholders who remain involved from the beginning to finish.

# IDP FACILITATOR

## Characteristics:

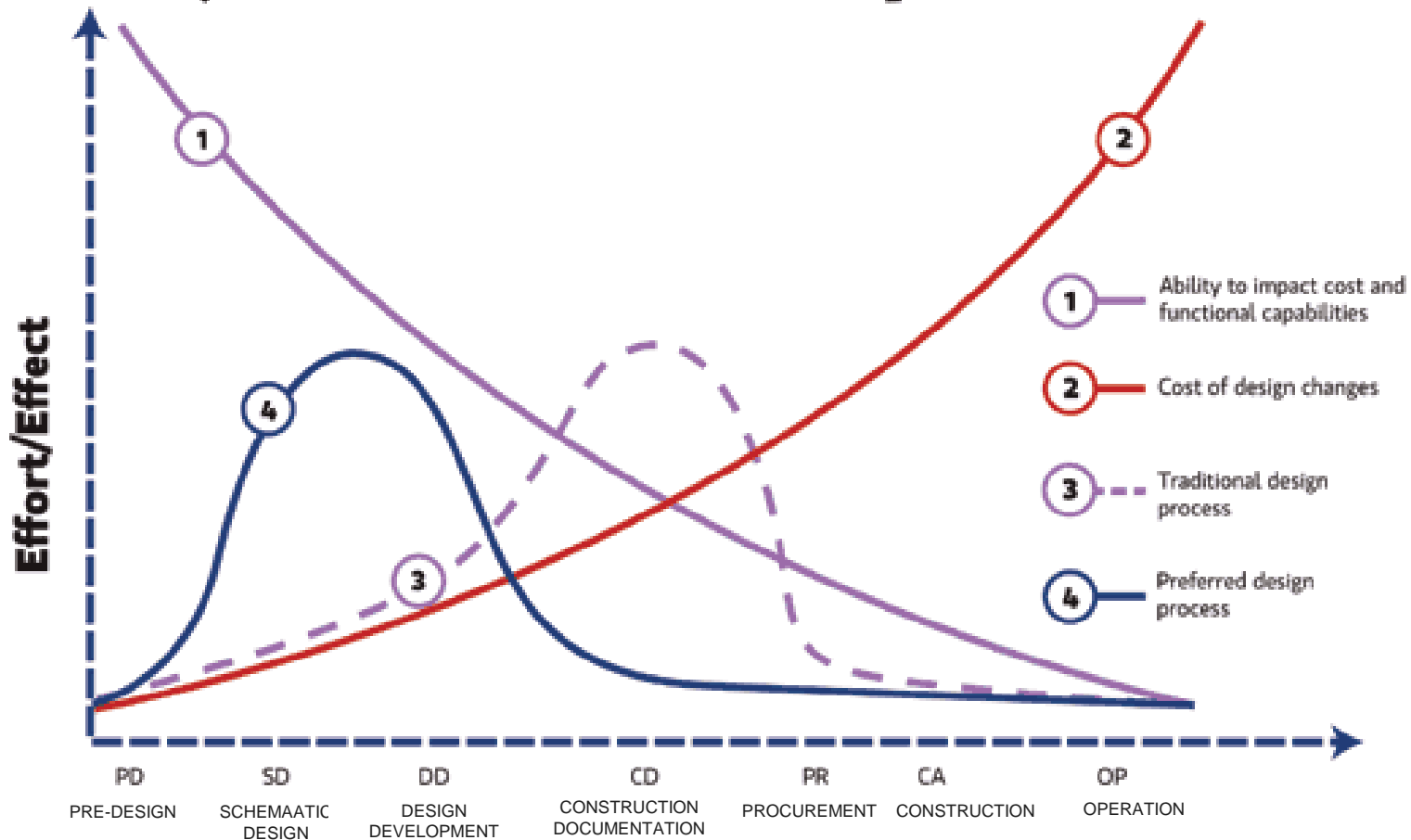
- To be the steward of the goals and targets
- To manage the process, to share the information within the IDP team
- To have a skill in the art of facilitation
- To have a good level of knowledge on final targets

# WHY IS IMPORTANT TO USE AN INTEGRATED DESIGN PROCESS?

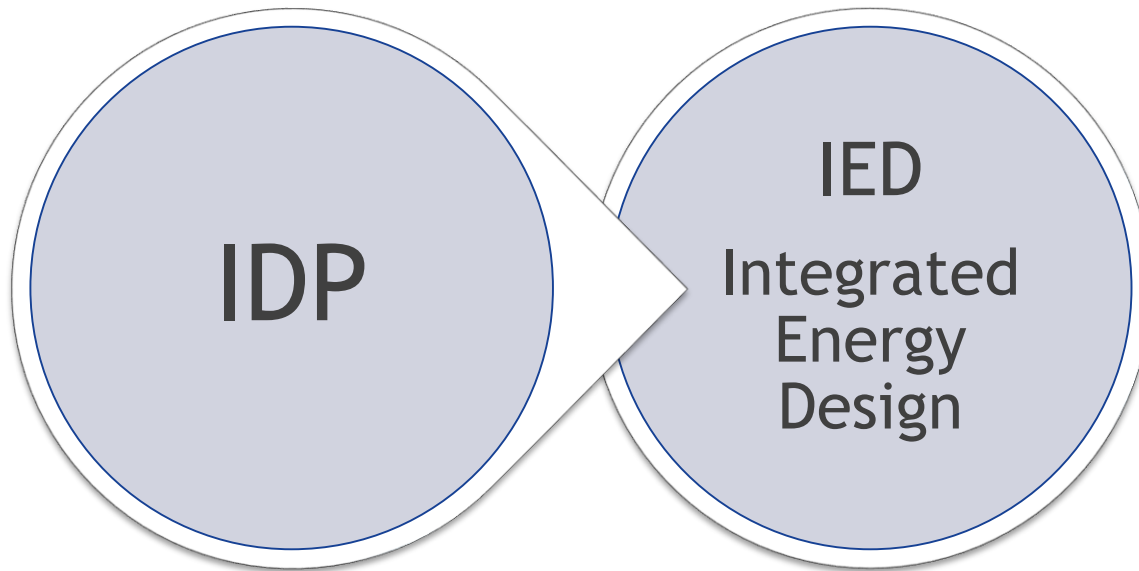


# TRADITIONAL DESIGN PROCESS vs IDP

## Project Effort and Impact



# IDP IN NZEB



# IED (or IDP)

Phases

PLANNING

DESIGN

CONSTRUCTION

OPERATION

MAINTENANCE

Objective  
(target)


Actors

Tools

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# IED (or IDP)

Phases	PLANNING	DESIGN				CONSTRUCTION	OPERATION	MAINTENANCE
Objective (target)	State of the art (needs, problems...)	Concept	Preliminary design	Definitive design	Executive design	Organization of the building site and its construction	Validation testing commissioning HVAC regulation	Ordinary maintenance of building elements
	Quantitative and qualitative objectives Regulation	<ul style="list-style-type: none"> <li>nZEB target</li> <li>indoor comfort - costs - benefits</li> <li>functional aspects</li> <li>aesthetical aspects</li> <li>...</li> </ul>  <p><i>level of detail</i></p>				Documentation of the building project construction	Verification of the targets!	
Actors	Owners  Tenants - Users  Contracting authority responsible	Design team  Owners  Tenants - Users  Contracting authority responsible				Contractor Construction supervisor Contracting authority responsible	Contractor Contracting authority responsible Tenants - Users	Experts
Tools	Collection of needs: -Energy audit - Survey/interviews to tenants	<ul style="list-style-type: none"> <li>EPC tool</li> <li>2D/3D software design tool</li> <li>.....</li> </ul>				Continuous checking progress on building site - construction	HVAC regulation tool	
<b>Verification of the objectives</b>								

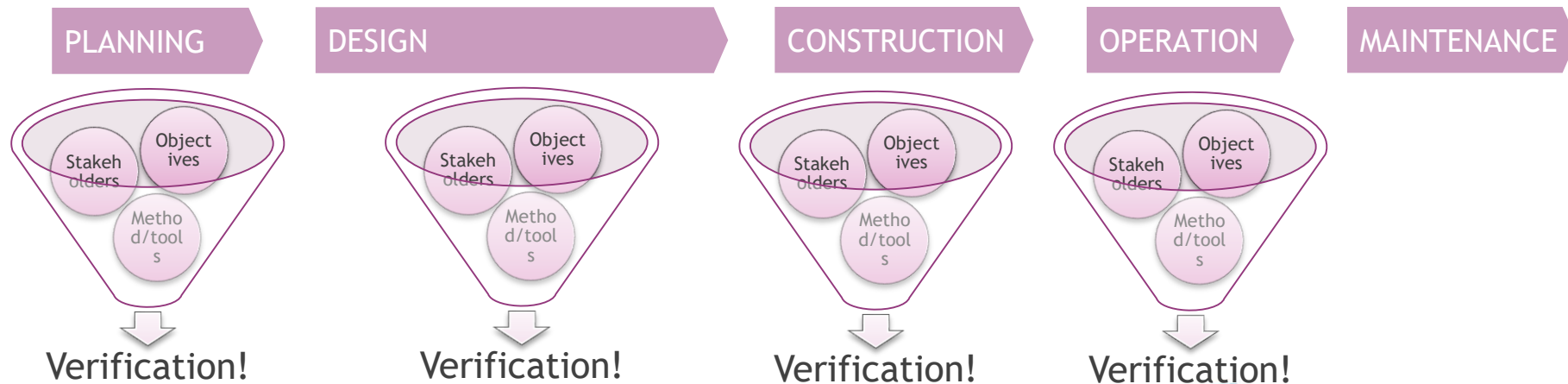
# CONCLUSION

<https://www.aidaproject.eu/downloads.php>

Generally, IDP is:

- an iterative process, not a linear approach
- a flexible method, not a formula
- different each time, not pre-determined

## Phases





**THANKS FOR THE ATTENTION!**

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