



Analysis Part 1

Design Thinking & Innovation
Process

Section: A7, Week 7



D'source Project



Open Design School



MoE's Innovation Cell



**THINK!
DESIGN**

Design Thinking & Innovation (DT&I)

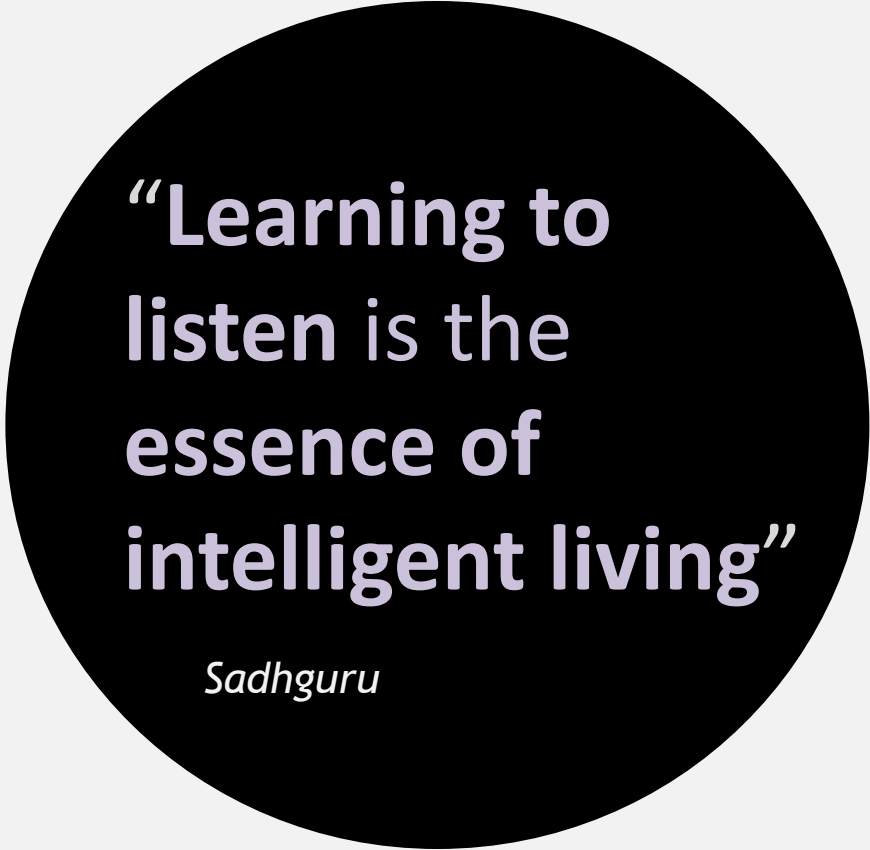
Section: A7
Week 7



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Design Thinking & Innovation (DT&I)

Prof. Ravi Poovaiah
IDC School of Design, IIT Bombay



**“Learning to
listen is the
essence of
intelligent living”**

Sadhguru

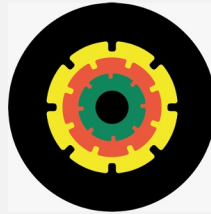
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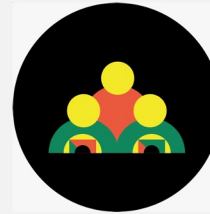
DT&I
Process
(20%)

- > Analysis
Part 1
- > Information/Data
Analysis



DT&I
Tools
(20%)

- > Artifact,
Activity, and
Spatial Mappings



DT&I
Project
(50%)

- > Analysis
- > Use of Artifact /
Activity / Spatial
Mappings



DT&I
Cast Study
(10%)

- > Case Study
Project:
Sustainable
Housing Society +
Coffee, Tea and
Spice Stories



DT&I Process

A7 Analysis – Part 1

Module A7:



Analysis – Part 1:



Content

- A7.1: Which phase of DT&I process is Analysis?
- A7.2: What is information/data analysis?
- A7.3: What does Analysis involve?
- A7.4: Why is Analysis important?
- A7.5: Further Study and References

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A7.1

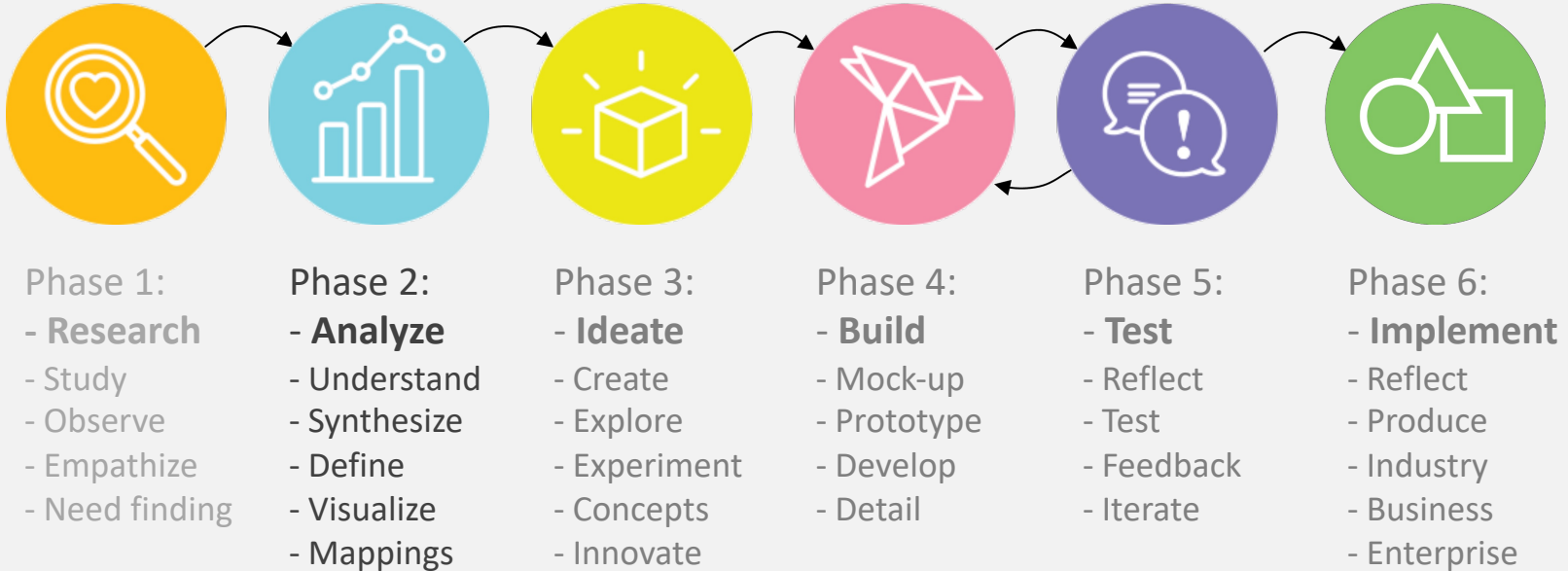
DT&I Process and Analysis

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DT&I Process and Analysis

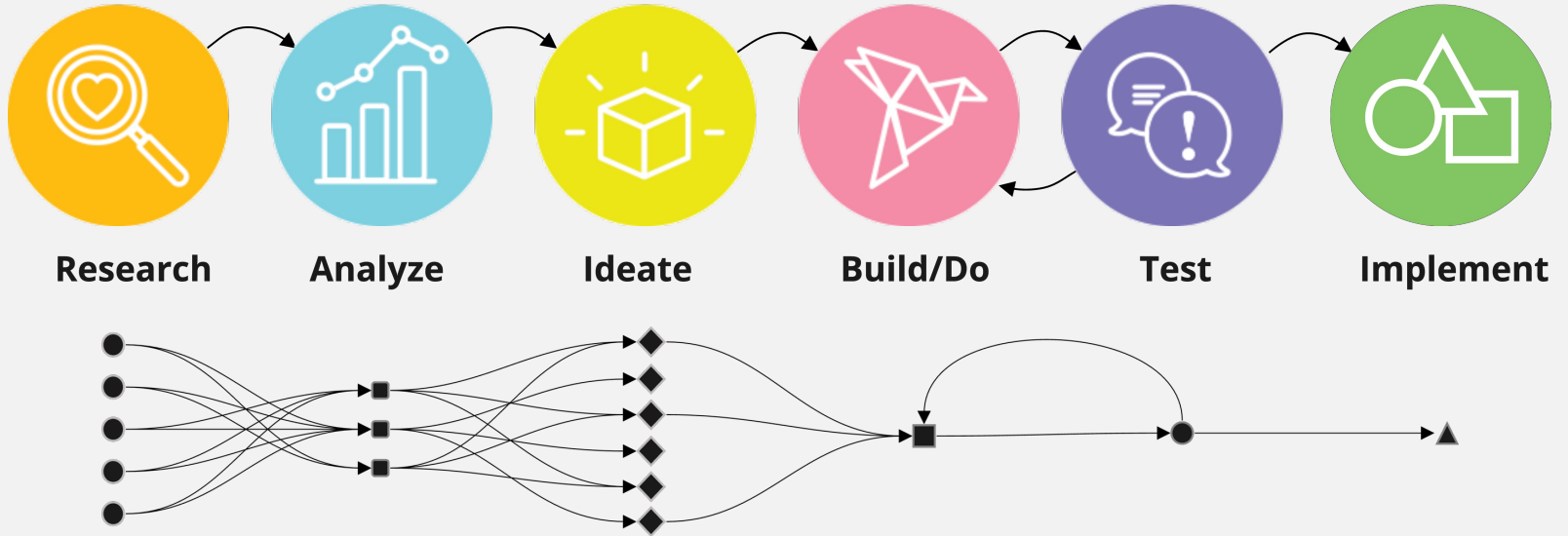
Analysis is the second phase of the DT&I process.





What is the Design Thinking Process?

Let's summarize:



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A7.2

What is Data/ Information Analysis?



What is 'Data/Information Analysis'?

Analysis involves critically examining the data/information that you have collated from Primary and Secondary Research to **make sense** of it and **identifying issues/needs** connected with your chosen **topic**.

Analysis helps convert data/information from **Observations/Studies** to making **Inferences** to finding **Opportunities** which leads to outlining the **Recommendations for Design**.

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A7.3

What does
Analysis
involve?



What does 'Data/Information Analysis' Involve?

Analysis involves Selection, Sorting, Cross-relating, Prioritizing, and visualizing the data/information that has been gathered by primary (user study) and secondary research (literature study).

Analysis involves:

- 1. Selection:** Select and Choose
- 2. Sorting:** Classification, Grouping of similar factors, Chunking, etc.
- 3. Cross-relating:** Comparing, Differentiating factors, Inter-connectedness, Affinities, etc.
- 4. Prioritizing:** Assigning hierarchy, Ordering factors, Sequencing, etc.
- 5. Identifying Uniqueness:** identifying Unique Features, Differentiator, etc.
- 6. Visualizing:** Making Diagrams, Charts, Mappings, etc.



Data/Information Analysis . . .

(Steps 1, 2, and 3 have been used as part of Secondary and Primary Research)



1. Select and Choose:

. You'll need to **sieve through the data/information** you have collected from Secondary and Primary Research to **select and choose the ones that are relevant to your topic.**



2. Sorting:

. The selected information is **sorted into categories** by **grouping similar ones with affinities together.**

. We can **make use of keywords or short phrases** on sticky notes and then **card sorting to classify and sort data/information.**



3. Cross-relating:

. The sorted information is **Compared**, seen for **Inter-connectedness**, and **connected through Affinity links.**

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Data/Information Analysis . . .



4. Prioritizing:

. The sorted data/information is assigned hierarchy and reordered and re-sequenced such that the they **denote levels of importance**



5. Identifying Uniqueness:

. Identify Data/information that have **unique features or are different from the rest**.
. Special focus might need to be given to these factors



6. Visualizing data/Information in form of Charts, Diagram and Mappings:

. The Data/information can be **visualized as mappings** in terms of the following:
(a) **Artifacts** (objects/media/services),
(b) **Activities** (Temporal) and
(c) **Environments** (Spatial)

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Data/Information Analysis . . .

(The first 3 have been used as part of Secondary and Primary Research)



Selection



Sorting



**Cross-
relating**



**Priori-
tizing**



**Unique-
ness**



**Visuali-
zation**

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Visualization of Data/Information:



Artifact Mapping:

. The various objects/medias/services connected to the topic are shown in relation to each other



Activity/Temporal Mapping:

. The various activities connected with the topic are shown across the time dimension.

- (a) One day in the life of . .
- (b) User Journey mapping
- (c) Life-cycle mapping
- (d) Causal Mappings/Diagrams



Environment/Spatial Mappings:

. The various spaces or environments that are connected with the topic are shown in relation to each other

- (a) Physical Spatial Mapping
- (b) Spatial Connectivity Mapping

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A7.4

Why is Analysis Important?



Why is 'Analysis' important?

- Analysis **involves critically examining** the gather data/information that has been collated
- Analysis involves **making sense of the data/information in a systematic organized manner** such that it is useful in **identifying the needs** for solving issues connected with your topic.
- the **recommendations** from the analysis will **help in redefining the problem statement.**

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A7.5

Further Study and References



Further Study and References:

- www.dsource.in
DT&I, Case Studies, Courses, Tools, and Resources
<https://dsource.in/dti>
<https://dsource.in/case-study>
<https://dsource.in/course>
<https://dsource.in/tools>
<https://dsource.in/resource>
- Design Methods
by Christopher Jones, John Wiley & Sons Inc, 1992
- The Pocket Universal Principles of Design
by William Lidwell, Rockport Publishers, 2018

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Design Quote:

“The more you
know, the more you
know you don't
know ”

Aristotle





**Thanks for
Listening**

DT&I Process
Section: A7
Week 7

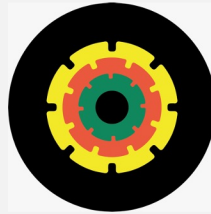
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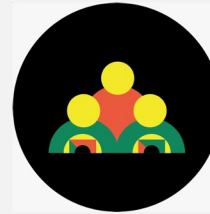
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Supporting Organizations:



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Credits:

Presented by:
Prof. Ravi Poovaiah



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Credits:

Camera & Editing:
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