



Primary Research Part 1

Design Thinking & Innovation
Process

Section: A5, Week 5



D'source Project



Open Design School



MoE's Innovation Cell



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Design Thinking & Innovation (DT&I)


Section: A5
Week 5



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Design Thinking & Innovation (DT&I)

Prof. Ravi Poovaiah
IDC School of Design, IIT Bombay



**“I get inspiration
from a lot of things
around me - nature,
hills, people, and
even insects”**

Ruskin Bond, Author

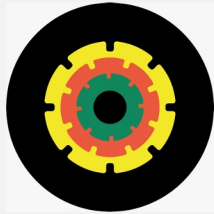
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DT&I Course – Week 5:



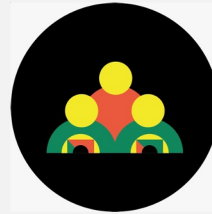
DT&I
Process
(20%)

- > Primary Research
Part 1
- > Interacting with Users



DT&I
Tools
(20%)

- > Contextual Inquiry



DT&I
Project
(50%)

- > Primary Research
- > Contextual Inquiry



DT&I
Case Study
(10%)

- > Case Study
Project 'IxD
Project'



DT&I Process

A5 Primary Research – Part 1

Module A5:



Primary Research – Part 1:

Content

- A5.1: Which phase of DT&I process is Primary Research?
- A5.2: What is Primary Research?
- A5.3: What are the types of Primary Research?
- A5.4: How do we document Primary Research?
- A5.5: How do we conduct Primary Research?
- A5.6: Further Study and References

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A5.1

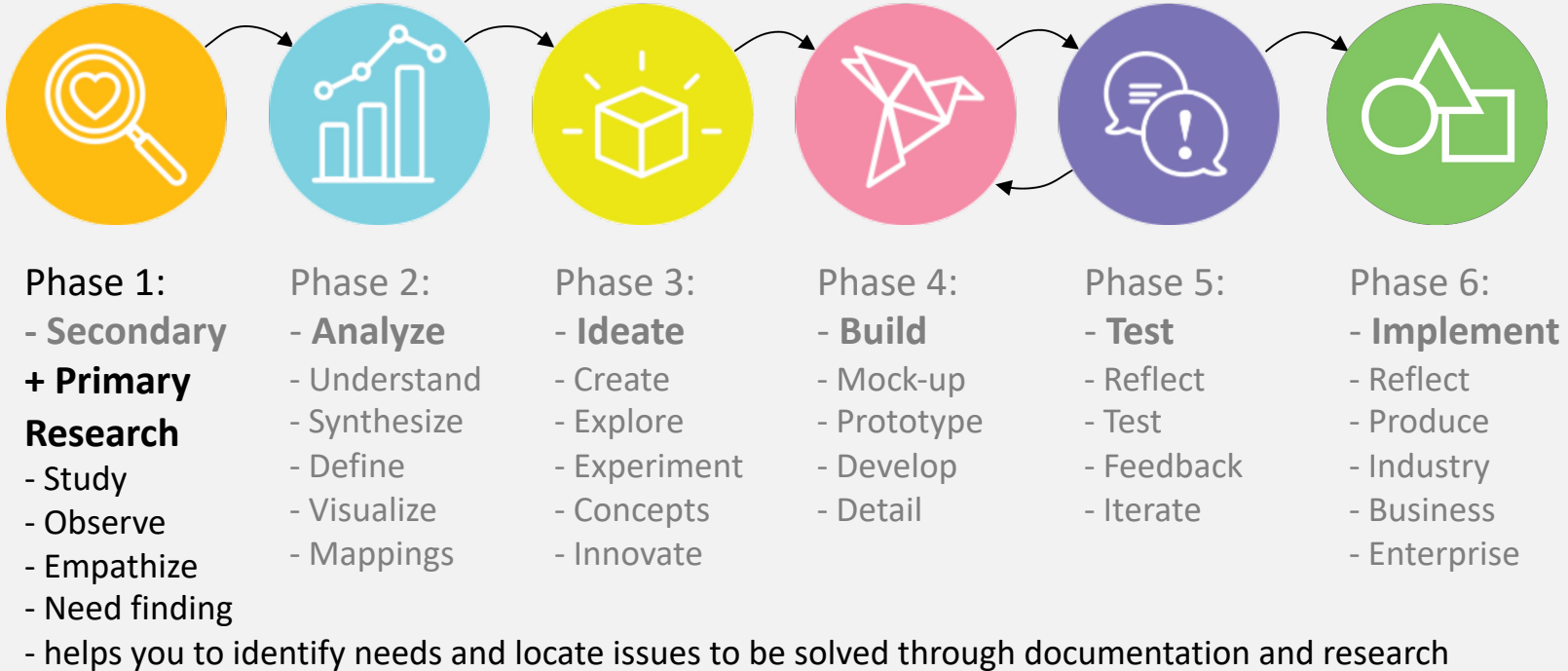
DT&I Process and Primary Research

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DT&I Process and Primary Research

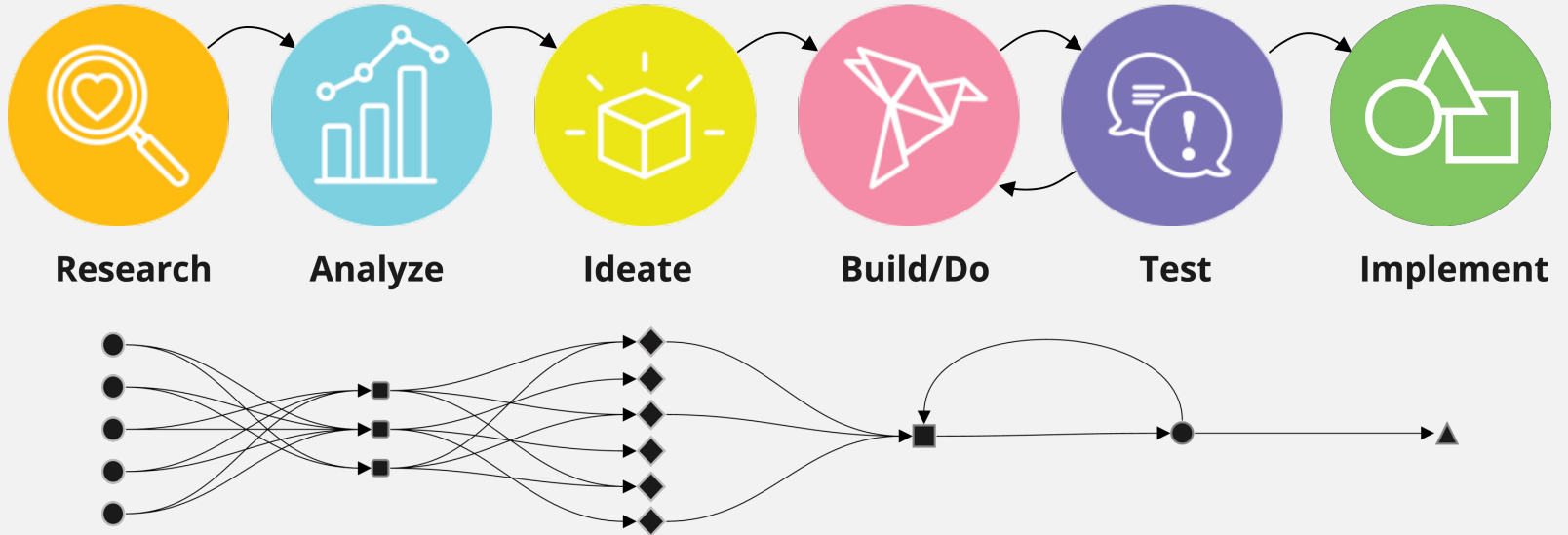
Primary Research is the first phase of the DT&I process.





What is the Design Thinking Process?

Let's summarise:



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A5.2

What is 'Primary Research'?



What is 'Primary Research'?

Primary Research is based on **first hand information or data** that (as a designer) you'll **collect directly from the source or the user**.

Primary Research is like going on a **Treasure Hunt** finding, discovering hidden issues and needs.

In Social Sciences, this is referred to as **Field Research** that allows you to **do original research** with users in their real-life environment.

- **Visit** the place of the user and observe the user doing the activity
- **Converse** with the users to understand their issues
- **Document** these observations and findings for further analysis



Why is 'Primary Research' important?

Primary Research based on first hand information/data becomes useful and necessary **to fill-in the gaps** that secondary research did not reveal. It could be that this information/data has not been collected before or is not accessible.

As a designer, when you go to the environment where the issues are, **you experience the problem space** and this is an invaluable asset to the understanding of the problem.

Primary Research is about **finding minor details and specific information** that can make a major difference to your understanding of the problem space.

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A5.3

What are the
types of
Primary
Research



Types of Primary Research Methods:

The following are useful Primary Research Methods for designers:

1. Observation and Documentation
2. Conversations, Queries and User Narratives
3. Contextual Inquiry
4. Questionnaires and Surveys
5. Talking to Experts
6. Focus Group Discussions



Types of Primary Research Methods:

1. Observation and Documentation:

- Observation and Documentation involves **observing the User** at their **natural location** while using the product or the service. These observations are **documented through text, images and video** using a sketchbook/notebook and a mobile camera.

2. Conversations, Queries and User Narratives

- It's best to converse with the User while he/she is doing the activity. This is to get the **user's thoughts, opinion, feedback, challenges** while using the product or service. Requesting them to narrate their experiences could provide useful information.

3. Contextual Inquiry (combination of the above two methods)

Contextual Inquiry is a method to **understand the needs of the user** through **observations and conversations** at the **user's own location or environment** while the **person is doing/performing the activity**.



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Types of Primary Research Methods . . .

4. Questionnaires and Surveys

Questionnaires and Surveys involve answering a set of questions by the user. These can be **done either offline or online**. Care should be taken to set the questions properly so that there is no confusion and the **question can be answered clearly**. The questions could be **open-ended or close-ended** with predefined answers / using a rating scale.

5. Talking to Experts

Talking to **experts who have in-depth knowledge** of the topic could be very useful.

6. Focus Group Discussions

Focus group is a **discussion among users** related to the Problem Area or Topic with a **moderator to lead the conversations**. The discussions could **reveal their thoughts and opinions** along with comments and suggestions. These are documented for further analysis.

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How do we
Document
Primary
Research?



Documenting Primary Research:

Documentation could involve any of these methods of capturing information:

- Notes
- Sketches
- Photographs
- Audio recordings
- Video recordings

Documentation could involve capturing information about the following:

- People/Life and Activities
- Place and Environment
- Objects and Artifacts (Arts and Crafts)
- Motifs and Paintings
- Activities and Performances
- Events and Festivals

Documentation could involve gathering information through any of these activities:

- Observations
- Conversations
- Interviews
- Study and Analysis
- Feedback



Seeking Permission:

Seeking Permission:

- Its is very important not to assume that you can go and document something that belongs to someone else.
- **seek permission before you start documenting – its ethical.**
- . It could be quite **intrusive to take photographs** of people without their knowledge.
- **seek permission** before you start photographing people, activities or their environments.
- It's **essential to protect the users identity** and **be respectful of their privacy**, more so if it involves children, the elderly or persons with disability.
- be **sensitive to their concerns**, be **respectful of their culture, and traditions.**
- Do **get the clearance for your study** from your institute/organization's **Ethics Committee** - especially if it involves the above mentioned user groups

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A5.5

How to do Primary Research?



How to do Primary Research?

These are the steps involved in Primary Research:

- 1 Identify sources of primary research relevant to your topic
- 2 Note down as points a list of key issues that you intend to discuss
- 3 You'll need visit the place of your users and observe them in action
- 4 Converse with them to collect relevant information/data (focus on listening)
- 5 Document the information/data through images, text, audio and video
- 6 Use Contextual Inquiry/ Focus Groups/Questionnaire/Survey to get quantitative or qualitative information from a set of users

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A5.5

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>
- Contextual Design: Defining Customer-Centered Systems
by Karen Holtzblatt, Hugh Beyer, academic Press, 1998
- The Humane Interface: New Directions for Designing Interactive Systems
by Jef Raskin, Addison Wesley, 2000


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Design Quote:
“People ignore
design that ignores
people”

*Frank Chimero,
Designer and Writer*





**Thanks for
Listening**

DT&I Project
Section: A5
Week 5

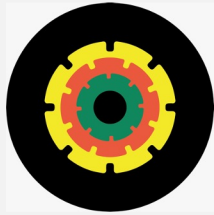
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Case Study
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Project 'IxD
Project'



Supporting Organizations:



D'source Project
IDC, IIT Bombay



Open Design School
IDC, IIT Bombay



MoE's Innovation Cell
AICTE, New Delhi



Credits:

Content:

Prof. Ravi Poovaiah



D'source Project



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Credits:

Camera & Editing:
Santosh Sonawane



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Credits:

Think Design Animation:
Rajiv Sarkar



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Credits:

End Title Music:
C P Narayan



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