



Aalto University
Design Factory

PDP Toolbox



Economy
Budget

Leadership
Mgmt
Teamwork

Safety
& order

Textbook
PDD

Project
[e.g. PMBOK]

Meetings

How to ...
at DF

To get stuff
& services

Prototyping &
Thinking by doing

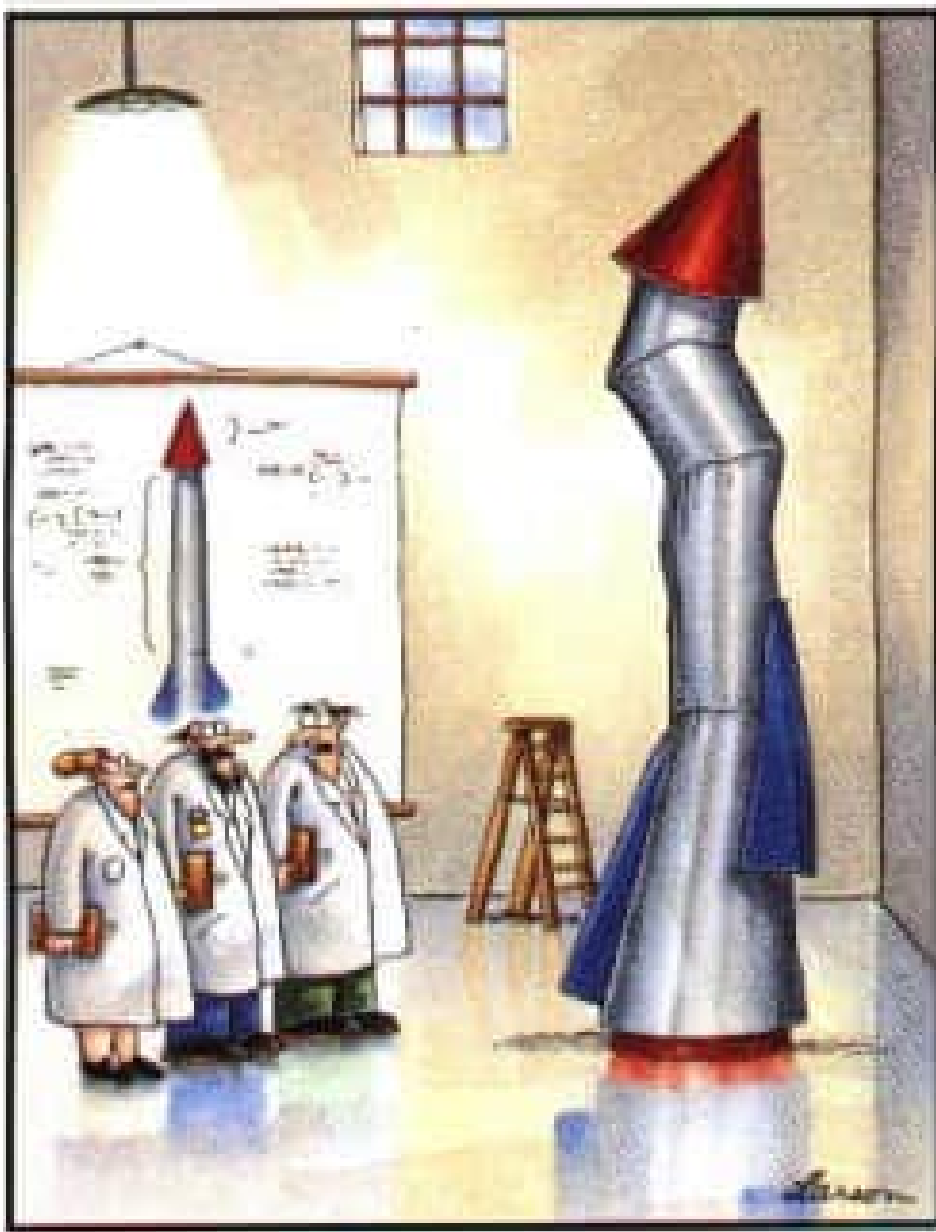
Economy
Budget



Leadership
Mgmt
Teamwork

What is expected from team leaders?





It's time we face reality, mates. We are not rocket scientists.





Decision making

Safety
& order



Design Factory Safety

Introductions and manual
Version 22/09/2021

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Textbook PDD

FIFTH EDITION

Product Design and Development



KARL T. ULRICH • STEVEN D. EPPINGER

McGraw-Hill INTERNATIONAL EDITION



SIXTH EDITION

PRODUCT DESIGN AND DEVELOPMENT

Karl T. Ulrich | Steven D. Eppinger

Mc
Graw
Hill
Education

Saga Santala

DESIGN THINKING FOR PROJECT MANAGERS

How to Rock
a Product Development Project



pdp | PRODUCT DEVELOPMENT
PROJECT

COURSE GUIDE

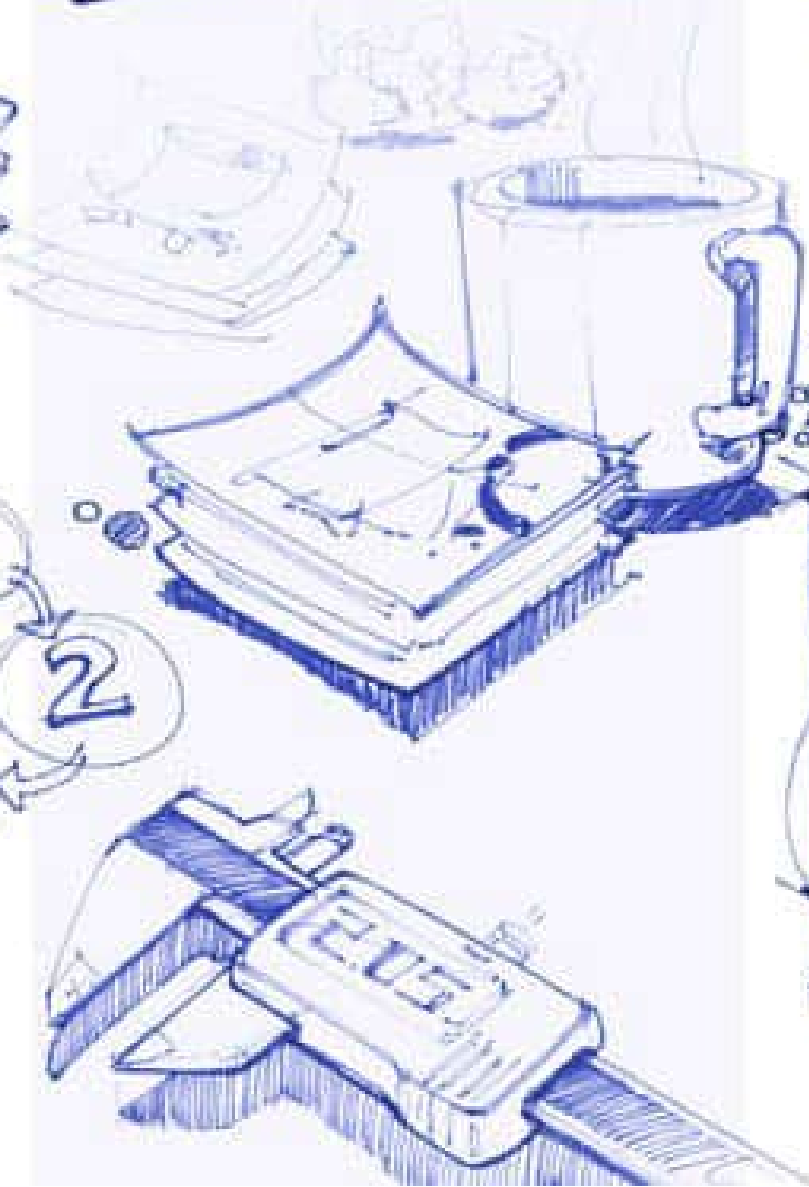


Aalto University
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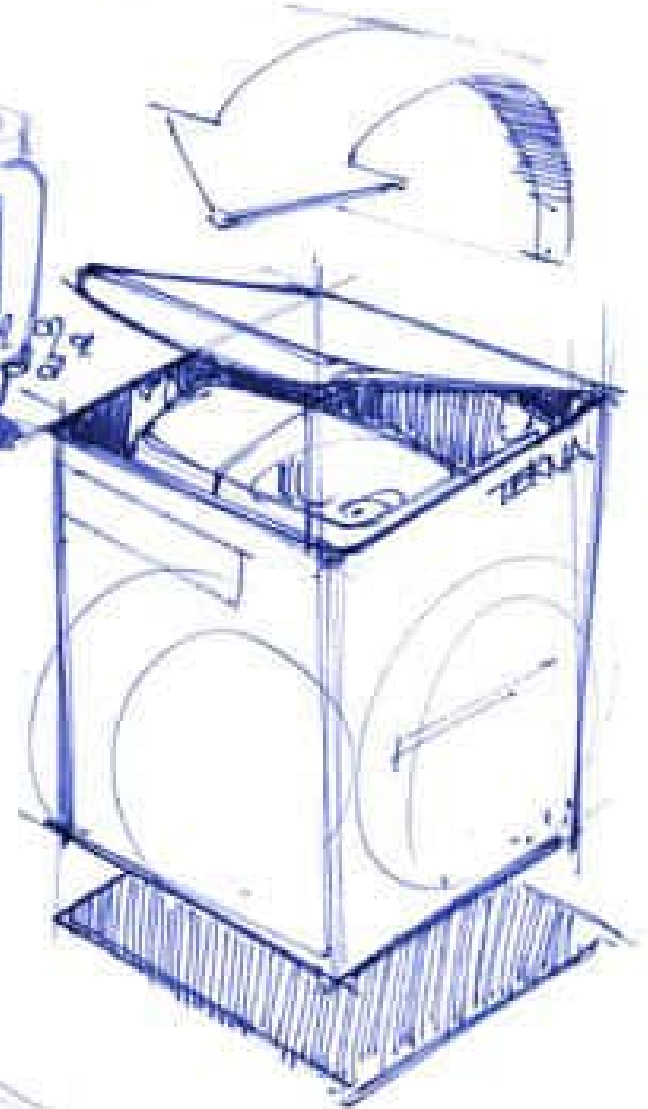
DISCOVER

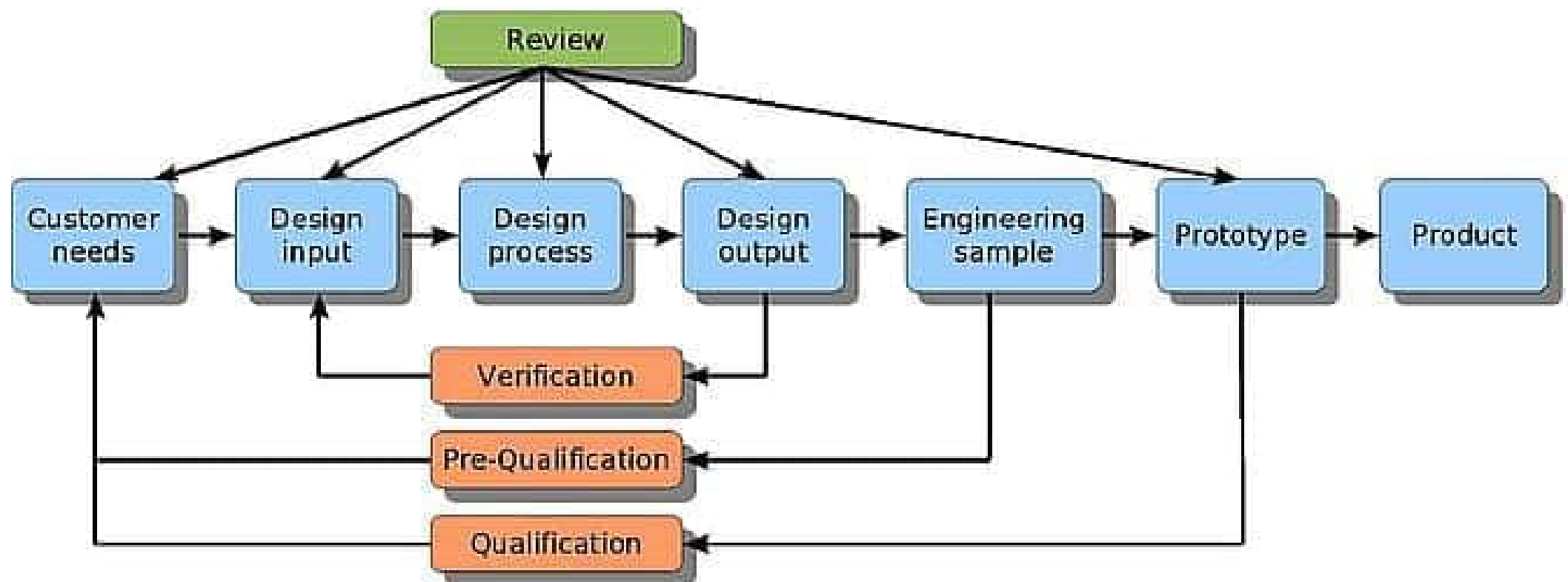


DEVELOP



DELIVER







| 1. Concept | 2. Research | 3. Analysis | 4. Develop | 5. Launch |
|--|---|--|---|---|
| <p>Description of Activities:</p> <ul style="list-style-type: none"> Idea Generation: <ul style="list-style-type: none"> Requests Customer Pain Market Studies Legislation Competitors <p>Key Deliverables:</p> <p>Product Concept Doc.</p> | <p>Description of Activities:</p> <ul style="list-style-type: none"> Assess Market: <ul style="list-style-type: none"> Segments & Size Growth Potential Customer Needs Legal Issues Competition <p>Key Deliverables:</p> <p>Market Research Report</p> <p>Market Req. Document</p> <p>Product Definition Statement</p> | <p>Description of Activities:</p> <ul style="list-style-type: none"> Business Analysis: <ul style="list-style-type: none"> Cost/Benefit Resources Required Capital Expenses Profitability/Margin Anticipated Sales <p>Key Deliverables:</p> <p>Business Case</p> <p>Profitability Analysis</p> <p>Product Req. Document</p> | <p>Description of Activities:</p> <ul style="list-style-type: none"> Product Development: <ul style="list-style-type: none"> Technical Specs Prototyping Trial Production Testing & QA Test Market Selling <p>Key Deliverables:</p> <p>Product Dev. Schedule</p> <p>Product Testing Report</p> <p>Test Market Sales Report</p> | <p>Description of Activities:</p> <ul style="list-style-type: none"> Go To Market: <ul style="list-style-type: none"> Marketing Plan Sales Training Distribution Plan Collateral Design Set Launch Date <p>Key Deliverables:</p> <p>Product Launch Plan</p> <p>Product Launch Budget</p> <p>Product ROI Forecast</p> <p>Target Launch Date Set</p> |

| Checkpoint #1 | Checkpoint #2 | Checkpoint #3 | Checkpoint #4 | Checkpoint #5 |
|---|---|--|--|--|
| <p>Description of Activities:</p> <ul style="list-style-type: none"> Review Deliverables <p>Decisions:</p> <ul style="list-style-type: none"> Go/No-Go to Research Incubate Idea or Kill | <p>Description of Activities:</p> <ul style="list-style-type: none"> Review Deliverables <p>Decisions:</p> <ul style="list-style-type: none"> Go/No-Go to Analysis Incubate Idea or Kill | <p>Description of Activities:</p> <ul style="list-style-type: none"> Review Deliverables <p>Decisions:</p> <ul style="list-style-type: none"> Go/No-Go to Develop Incubate Idea or Kill | <p>Description of Activities:</p> <ul style="list-style-type: none"> Review Deliverables <p>Decisions:</p> <ul style="list-style-type: none"> Go/No-Go to Launch | <p>Description of Activities:</p> <ul style="list-style-type: none"> Review Deliverables <p>Decisions:</p> <ul style="list-style-type: none"> Go/No-Go to Market |



[illegible]





Project
[e.g. PMBOK]

A Guide to the Project
Management Body of Knowledge

PMBOK® GUIDE

Seventh Edition

AND The Standard
for Project Management

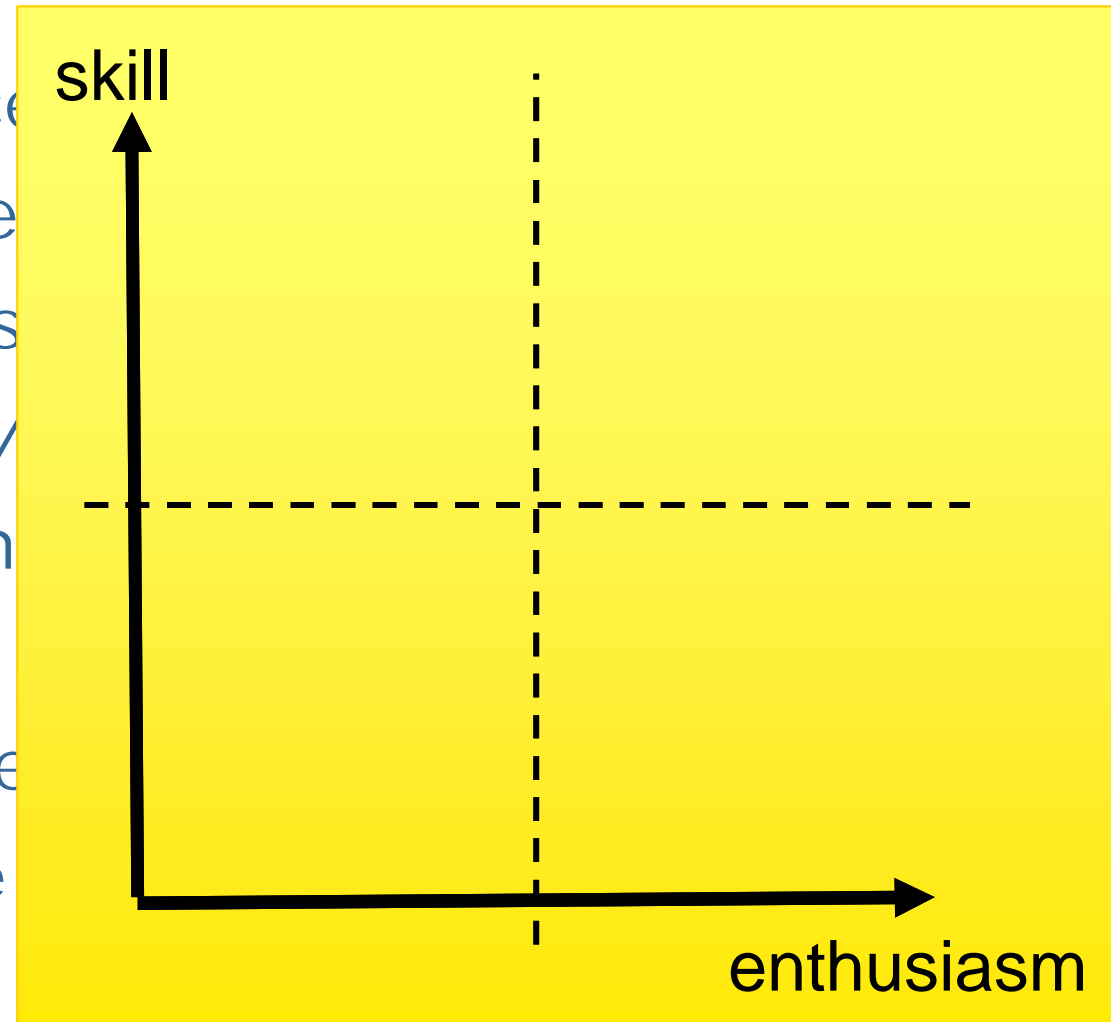
ANSI/PMI 99-001-2021

Project plan

- 1. Background**
- 2. Project objectives, expected deliverables**
- 3. Methods**
- 4. Organization**
- 5. Work breakdown structure**
- 6. Schedule**
- 7. Budget**
- 8. Communication plan**
- 9. Meetings , checks and decision making**
- 10. Risk analysis**
- 11. Plan for reporting and transfer of results**
- 12. Tracking experiences, lessons learned and feedback**

STUDENT PROJECT

- Difference
- Part-time
- Enthusias
- Sponsor /
- Opportun
- Have fun
- This proje
- Make the



bonus ?
work, hobbies

8 months

Make your self easy to find
Make yourself easy to help
Do your homework
We are all human
Start with what you can give
Look for the win win
Be consistent
Build your project brand (=promise,
no conflict with your ethics)
Luck happens (must buy tickets anyway!)
When all fails, just laugh!

By Heidi Roizen 2011 @ADF

Meetings

MEETINGS

- Why this meeting is needed?
- Starts – Ends at ...
- Chairperson
- Taking notes (where do they go?)
- Decisions to be made
- Topics to be discussed
- What makes meetings frustrating / inspiring, efficient / waste of time, helpful / harmful ...



**KEEP
CALM
&
FOLLOW
THE RULES**

Being late
Email, sms, call
Rotation
Files and storages
Documentation
Backups
Supporting activities

Talk to strangers
Safety comes first
Fail fast succeed sooner

How to ...
at DF

To get stuff
& services

Prototyping &
Thinking by doing



Prototyping & Thinking by doing



























Design factories around the world



DESIGN FACTORIES LISTED BY YEAR OF FOUNDING

- | | | | |
|---|--|--|--|
| 01 AALTO UNIVERSITY DESIGN FACTORY Aalto University, Helsinki, Finland (2008) | 09 FRISIAN DESIGN FACTORY NHL Stenden University of Applied Sciences, Leeuwarden, the Netherlands (2015) | 16 DESIGN FACTORY NEW ZEALAND Wintec, Hamilton, New Zealand (2017) | 24 HAMK DESIGN FACTORY Häme University of Applied Sciences, Hämeenlinna, Finland (2019) |
| 02 SINO-FINNISH CENTRE Tongji University, Shanghai, China (2010) | 10 METU DESIGN FACTORY Middle East Technical University, Ankara, Turkey (2016) | 17 WARSAW DESIGN FACTORY Warsaw University of Technology, Warsaw, Poland (2017) | 25 ST. JOHN'S UNIVERSITY DESIGN FACTORY St. John's University, New York City, USA (2019) |
| 03 DESIGN FACTORY MELBOURNE Swinburne University of Technology, Melbourne, Australia (2011) | 11 DESIGN FACTORY JAVERIANA BOGOTÁ PUC Javeriana, Bogotá, Colombia (2016) | 18 FUSION POINT ESADE, Universidad Politècnica de Catalunya and IED Barcelona, Barcelona, Spain (2017) | 26 HANNAM DESIGN FACTORY Hannam University, Daegu, South Korea (2019) |
| 04 DUOC DESIGN FACTORY Duoc UC, Santiago de Chile, Chile (2012) | 12 NYC DESIGN FACTORY Pace University, New York City, USA (2016) | 19 KYOTO DESIGN LAB Kyoto Institute of Technology, Kyoto, Japan (2017) | 27 SHENKAR DESIGN FACTORY Shenkar College, Tel Aviv, Israel (2019) |
| 05 IDEASQUARE @CERN CERN, Geneva, Switzerland (2014) | 13 RTU DESIGN FACTORY Riga Technical University, Riga, Latvia (Oct 2016) | 20 CALI DESIGN FACTORY PUC Javeriana, Cali, Colombia (2017) | 28 OPER.SPACE University of Bologna, Bologna, Italy (2019) |
| 06 DESIGN FACTORY KOREA Yonsei University, Seoul, South Korea (2015) | 14 UPV DESIGN FACTORY Universidad Politècnica de València, Valencia, Spain (2017) | 21 INNO.SPACE Hochschule Mannheim, Mannheim, Germany (2018) | 29 TECHNOVATION HUB KU Leuven, Leuven, Belgium (2020) |
| 07 PORTO DESIGN FACTORY Porto Polytechnic, Porto, Portugal (2015) | 15 DESIGN FACTORY SÃO PAULO Universidade São Paulo, São Paulo, Brazil (2017) | 22 UNIVERSITY OF TARTU DELTA SANDBOX University of Tartu, Tartu, Estonia (2018) | 30 DESIGN FACTORY LONDON Brunel University London, UK (2020) |
| 08 NEXUS DESIGN FACTORY Thomas Jefferson University, Philadelphia, USA (2015) | | 23 SIT DESIGN FACTORY Singapore Institute of Technology, Singapore (2018) | |

A photograph of a theater interior. The stage is lit with purple and blue light. Two large projection screens are visible, each displaying a technical diagram with various symbols and the text 'PRESENTATION DAY 15.5.2014'. The audience area is filled with rows of dark chairs. The ceiling has exposed pipes and stage lights. The overall atmosphere is modern and technical.

Ready to know DF?