



The Platform Design Toolkit User Guide

Release note updates

Document Release Date	March 2021
Version	2.2.1
Description of the Release	<p>This updated release of the User Guide connects better with the contextually released (march 2021) Platform Opportunity Exploration Guide.</p> <p>Main elements characterizing this release:</p> <ul style="list-style-type: none">- a further example is provided (prosumer solar energy) that helps the reader weave the whole process;- a newly packaged set of related canvases available in the companion download pack (advanced canvases have been eliminated, the relevant ones moved to the Platform Opportunity Exploration guide).
Related Documents	The Platform Opportunity Exploration Guide
Based on Platform Design Toolkit Version	2.2
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Foreword

Dear reader,

this is the **User Guide** for adopting the **Platform Design Toolkit**, a design framework that one can use to envision, develop and roll out platform strategies that mobilize ecosystems.

The toolkit is essentially made of a set of **design canvases**, plus **additional resources** like the User Guide that you are reading right now.¹

In this document, we present a widely tested approach to the use of these canvases to explore a strategic design challenge: building a strategy that **mobilizes an ecosystem** through new platform experiences.

Although it's clear that there's no inherent usefulness in filling up a canvas, we believe—and our adopters made it clear countless times—that this methodology helps you to **get quicker to a shared idea and support you in the execution**, always a key challenge beyond design.

In this User Guide, we propose one possible way to organize the work around the canvases: we hope that by following a step-by-step process you will soon feel confident to explore other ways to use the framework, ways that you find more relevant to your case.

Please reach out to us to share your insights!

Our growing **Community of Practice** is where our adopters share and co-evolve the methodology and its different uses.

We truly believe that everything is a remix, and that's why we made this toolkit open source, and easy to use so that anyone can feel free to change it and adapt it to their own style by following the **CC-BY-SA 4.0** Licence.

Kindly,
the **Platform Design Toolkit** team.

¹ To complement this introduction you can read our orientation post:

"Navigating ► Platform Design Toolkit" - available at <http://bit.ly/PDT-UG-NAV>

Special Acknowledgments

Many people and contexts contributed ideas and gave us inspiration for building this toolkit.

The Platform Design Toolkit team wants to explicitly thank a few special ones:

- **Alex Osterwalder, Yves Pigneur** and Strategizer AG for having created the amazing Business Model Canvas and the knowledge around it.
- **Dave Gray** and XPlane for the Empathy map and the Gamestorming library.
- **Ezio Manzini** for his seminal work in Service Design (and the motivations matrix!).
- **Steve Blank** and **Eric Ries** for being such a source of inspiration towards experimenting, and learning with Customer Development and Lean Startup.
- **John Hagel III** for giving us the lenses to look at the modern complexity of digital industries.
- **Michel Bauwens** for pioneering the study of Peer to Peer modes of production and the Commons.

We owe a lot to many, especially to our growing Community of Practice.

A sincere thanks to all who contribute knowledge in the open!

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Thanks!

Introduction

Before you begin with the hands-on step by step process we suggest you get familiar with some key notions and concepts of platform design.

This introductory part contains some essential elements you need to be familiar with before starting your journey:

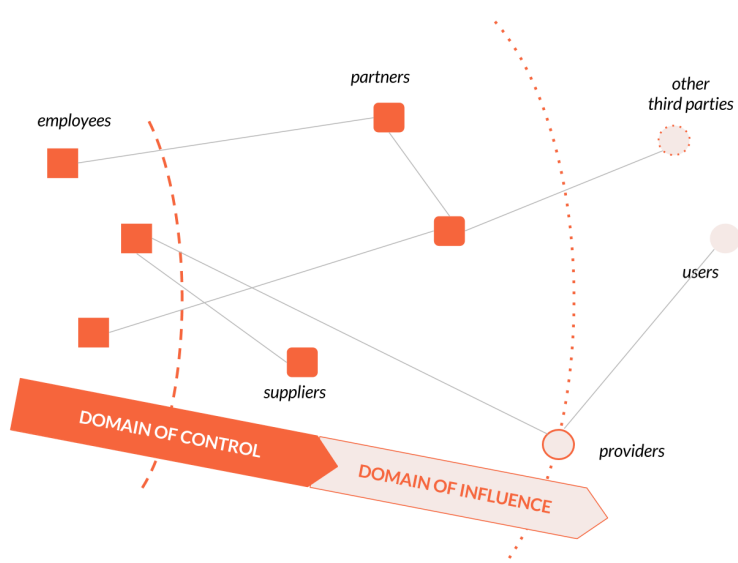
- a **methodological note**, introducing the concept of designing FOR ecosystems and the main contexts of Platform Design;
- a recap of the **phases of the Platform Design** process to help you situate this guide and the Platform Strategy design process described in this guide more widely in the platform design process
- a note on the contexts of Platform Design;
- a **glossary** of the **keywords** we use in Platform Design;
- a description of the **key roles** that we use to model all the entities around Platform Design;
- a description of the **two key engines** of Platform Design.

A methodological note: Design for Ecosystems

The more we run Platform Design workshops, the more we realize one thing: the most challenging moments always come at the beginning, when the team needs to figure out the scope of application of the methodology.

Scoping, setting the point of view and delimiting the opportunity we're addressing with a platform — an *ecosystem mobilization* strategy — is an extremely challenging task.

One of the key points to understand is that we are **designing for ecosystems**: that the focus of our design strategy is external, it's **IN the Ecosystem**, not inside our team, company or institution.



On the other hand, we also need to acknowledge that the difference between inside and outside may be more blurred than in the past: the very effort of trying to set a boundary to a design opportunity doesn't make much sense anymore.

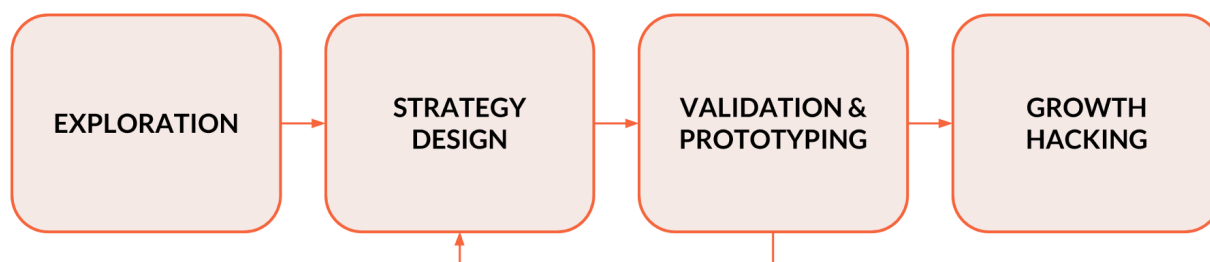
We always come to point out to the teams that work with us that there's no more an *inside* or an *outside* to a company, organization or a brand, and that strategy must be seen more as *boundary-less* and as a continuum (inside, at the edge and outside, the blurring context).

This enormous, boundary-less potential, on the other hand, must

push us to accept that — while the design scope might be wide — we need to begin by **prioritizing and focusing** on few points of view, and progressively iterate the approach at later times. That's how you can tackle a complex design.

The Phases of Platform Design

The work of a platform shaper can be roughly framed in four macro phases:



The step-by-step instructions contained in this User Guide will mainly revolve around phase 2. and 3.

1. **Exploration** – in this phase, a shaper understands the existing context, as well as the strategic meaning and applicability of a platform strategy that could impact, shape and influence the context. The key question that is asked in this phase is: *“What could be a fruitful context where we can apply a platform strategy, given our position in the ecosystem, our assets, and specificities as an organization or team?”*

Box 1: The Platform Opportunity Exploration Guide

The exploration phase is not covered by this user guide which focuses on the Strategy Design and Validation phase. You can learn more about the Exploration Phase with the recently released **Platform Opportunity Exploration Guide**. To know more about how we approach exploration, please refer to:

- “Platform Opportunity Exploration Guide” <https://boundaryless.io/pdt-toolkit/>
- “12 Patterns of Platform Design to kickstart Innovation Strategies.” <http://bit.ly/PDT-UG-PAT>
- “Exploring Ecosystems: The Patterns of Platformization.” <http://bit.ly/PDT-UG-EXP>

2. **Strategy Design** – in this phase, the platform shaper maps and clusters existing entities, understands their individual context and explores the potential they have to exchange value among them. Eventually, the platform shaper designs the two key platform engines (the Transactions Engine and the Learning Engine) and selects a high potential *platform experience*– along with its sustainability model (business model)– that can be brought to the context and iteratively validated with the ecosystem (*see next phase: Validation and Prototyping*).
3. **Validation and Prototyping** – in this phase the shaper conducts a series of interviews (this could also partially happen during the design phase, and is generally an iterative process) to get feedback on the riskiest assumptions in the design. Later the shaper makes actual MVPs (or just runs experiments, or builds prototypes) that are focused to validate or invalidate the assumptions in real life.
4. **Growth Hacking** – after the validation has happened, the shaper applies tactics to help the strategy grow in the context (being it a market, or something different). By growing the supply and demand side of the system, generating network effects, the strategy becomes more relevant and valuable.

Box 2: Platform Growth Guide and Course in the making

The growth hacking phase is not covered by this user guide, as it's still an experimental framework we're building. This upcoming integration to the Platform Design Toolkit will include a new Guide and a new Learning experience on **Growth, Network Effects** and **Defensibility** that will also cover the “product” side of a Platform-Marketplace Strategy. Stay tune by subscribing here: <https://platformdesigntoolkit.com/growth-subscribe>

To know more about how we approach growth hacking, please refer to the below selection of blog posts:

- **The New Growth Landscape** <https://stories.platformdesigntoolkit.com/growth-landscape>

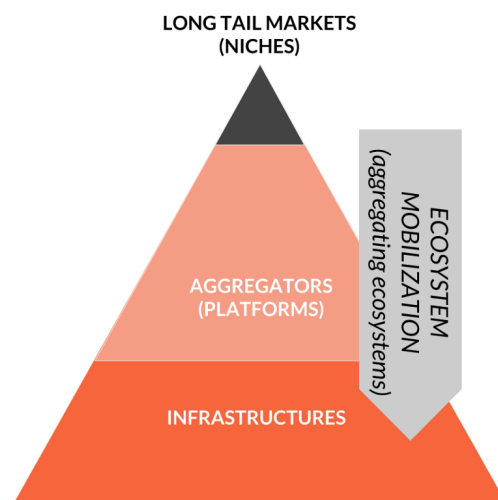
The Contexts of Platform Design

In our direct experience with hundreds of customers two typical contexts of innovating business models are recurring and can be framed by looking at Cicero's triangle. The first approach is what we call "*Ecosystem Mobilization*" and is about exploring the market - or more generally the ecosystem - seeking **new opportunities** that aren't necessarily related to an existing business line, product or service that the organization provides already. The second, that we call "*Product and Services Innovation*" normally starts by the idea of evolving, extending and integrating an existing organizational offering that the organization is already strong with.

A. Ecosystem Mobilization

In this common context of application of platform thinking the organization is looking to shape and mobilize an existing ecosystem with a new platform strategy. As we often say, Platform Design is heavily rooted in the observation of the *emergent*: you actually *can't design a strategy for an ecosystem that doesn't exist* (where exists = already trying to create and exchange value).

The analogy useful to explain the nonsense (i.e. design a new ecosystem), if you're familiar with the lean thinking approach, would be designing a solution for an inexistent problem: *who would do that?*



This consideration is at the core of this first context of applicability: if you see that value is being created and traded in a certain **Ecosystem**, space, or market (or any other social context that you don't normally call like that, can be for example your organization or your space of impact, in a non-profit context); if you see producers and consumers of value that are organizing around value creation, and you think this market (context) is performing below its potential, then this context is perfectly worth of **organizing through a platform strategy** that amplifies its potential. We call this context of application, *ecosystem mobilization*.

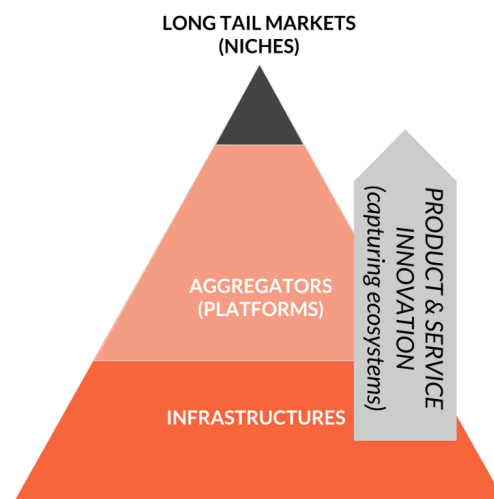
This is a typical approach that we consider as a **transformative** or **radical innovation** approach in traditional strategic terms as the organization is trying to create a new set of products and services to mobilize customers in a market that it normally doesn't serve. In this context the aim of the organization - as we'll see below - is to leverage on existing assets and capabilities to gain advantage, and provide relevant services to an existing ecosystem that - most likely and hopefully - has not been mobilized yet by any other platform shaper. This is normally the context of most of the traditional marketplace "startup" initiatives; but we are in this case even where the organization is leveraging its assets and capabilities to explore other markets. As an example, if an organization is capable of providing the *best in class* expertise on dealing with complex mission critical systems' maintenance in the aviation industry, a subset of its capabilities can be used to shaper a similar (in terms of needs) industry, like the Civil Railways transportation, or Hospitals facilities management, etc. In that case we should probably consider this an adjacent innovation context

(addressing different markets by leveraging on existing capabilities), but it's not the point of this guide to seek for a perfect framing strategy jargon-wise of such approaches.

B. Product & Service Innovation

Another recurring case is that of an existing player trying to - instead - use a platform approach to organize a larger ecosystem of interactions that is already insisting on products and services that the organization already provides.

In this case, there's already an ecosystem of entities using the product or service as a **component of a value chain**. So, the opportunity here is to move towards higher value systems: the platform shaper might want to better organize this ecosystem, facilitating higher value interactions. It's then about *product/service innovation* through platformization.



This is a typical approach that leads to **adjacent innovation** in typical strategic thinking: the organization that provides the already known product or service is looking for another - similar - market that can benefit from its current offerings (the latter can be then updated, extended or modified to better fit the new market) and provide the ecosystem with the infrastructure, components and services that help the ecosystem to grow. The driver here is the understanding of the current value chain, and its *integration* by providing higher value services to the entities, reducing the cost of transacting, offering better services and products. In this way the shaper can provide new niche experiences and help third parties in its ecosystem to grow as well, creating solid defensibility for its core services, now embedded in the third parties' business process.

Such an approach works well when organizations are capable of looking at the whole value chain beyond their existing products: as an example financial institutions are often aware that their customers are not looking for a loan or a mortgage **per se**, but more as a mean to achieve a life defining event such as moving to a new city to follow a career opportunity: that is the real value they are sensitive to. If this organization wants to climb the value chain, this is where it needs to go to leverage the ecosystem. Facilitating such an experience of "relocating to a new city and changing house" through a platform strategy that orchestrates all players involved is far more valuable than the single mortgage approval. If you're producing sports gear, your customers are not interested in owning that specific product (a tennis racket, a smartwatch) but in using them to improve their performance, stay healthy, and have fun with friends.

If we look at the mentioned contexts a bit more broadly, we can quickly understand that **there's a third (shadow) context** that is somehow mixed with the two. Indeed, there's always an existing organization that:

- **works as a complex network of interactions** between internal and external entities (therefore being partially overlapped with the concept of an ecosystem);
- **produces a certain process or product** (subject to the process/service innovation context).

The inextricable mix between the platformization contexts and the organizational one is a teller of how difficult to separate organizations from products, and organizations from ecosystems.

Today, the *boundaries* between the inside and the outside of an organization — and even between a product or service, and the organization that runs it — are disappearing. Think of Airbnb as an example: where does the organization ends and the brand, experience, or ecosystem starts? Hard to tell.²

To understand better how to address this initial moment of understanding the context of the opportunity the reader should refer to Boundaryless' Platform Opportunity Exploration Framework and Guide.

² For specific implementation of organizational transformations according to the principles of platform thinking, check the EEEO initiative: Entrepreneurial Ecosystem Enabling Organization [3EO Toolkit based on Haier's Rendanheyi](#).

Platform Design Glossary

Here you find a glossary with some of the most recurring words we use in platform design. We suggest you get familiar with these notions as they will be useful while going through the step by step process.

Canvas — A design canvas is a pre-formatted sheet of paper that enables a group of people to work and think together, as well as having structured conversations around a series of key topics to ultimately produce a shared vision and rich knowledge output. In our workshops, we use design canvases to help the team members to apply step by step our platform design approach, get insights together and share outcomes clearly with their stakeholders.

Platform Design Brief — A Design brief is a document for a design project developed by a person or team (the 'designer' or 'design team'). The brief outlines the scope of the platformization project including initial insights and element of the initial vision.

Platform (strategy) — a strategy, run by a "platform shaper" that wants to mobilize and help an ecosystem in creating value, with the aim of capturing part of this value. A platform strategy is made of a combination of different elements: narrative, technologies, rules, channels, contexts, enabling services, protocols and more.

Ecosystem — a set of entities playing in a context (e.g. a sector, an industry, a market, an organization) interacting and exchanging value, leveraging resources, generating outcomes. We often use "system" as an alternative to "ecosystem". Note that contexts often overlap and boundaries of ecosystems are hard to define.

Entity — an individual, economic and social actor with specific objectives. It can be a person, an organization, an institution, a team.

Role — in platform thinking, defining a role is a way to cluster several kinds of entities into the same category of players, primarily according to how much they share motivations to join, assets and capabilities (resources that they can leverage) and type of value exchanges they're looking for. Clustering entities into roles help you to apply platform thinking. As an example, modeling a healthcare platform-ecosystem, to facilitate booking and consumption of medical advice, one could model a general practitioner (GP) or a specialist under the same role of "*medical professional*" or "*healthcare service provider*".

Transaction — a transaction is an interaction between two entities. It happens in a channel or context and it involves an exchange of *value units* between the two entities. Transactions are already happening even before we deploy our platform strategy, however, the more the channel is well designed to reduce the coordination/transaction cost the more of these kinds of transactions will happen easily. A good transaction is simple, elementary, '*atomic*'. It is something easily repeatable, like filling out a contact form.

Incentive — one of the main pillars of designing and deploying a platform strategy is to deeply understand what would be the incentives we foresee for every entity to join our platform strategy. Usually, incentives have to do with everything that addresses the entities' performance pressures, life goals or generates more convenience for them. The more we understand incentives, the more likely is that they would embrace the "new rules of the game" embedded in our platform strategy.

Platform Narrative — is the macro message that embodies the “new rules of the game” that a platform shaper wants to offer to the entities of a sector, industry, organizational or market context. The platform narrative aims at convincing existing players to join a platform strategy because it will be easier for them to produce and exchange value, as well as because they will learn and evolve much faster as compared to not joining the platform strategy. One way to describe it is what John Hagel calls a narrative of positive opportunities: “...an effort to broadly redefine the terms [...] for a sector through a positive, **galvanizing message** that promises benefits to all who adopt the new terms”

Network Effects — Network effects are the mechanisms, peculiar of networks, whereby adding a new user (or producer) makes the product/service/experience more valuable to every other user. Network effects are of many types. One example could be the network effect generated by adding a landline to the network (Metcalfe’s law).

MVP — in platform thinking this word stands for *Minimum Viable Platform*, besides the more usual *Minimum Viable Product*. The MVP is an initial iteration of the platform strategy that is focused on validating the riskiest assumptions: this is normally used to minimize the risk in designing and developing a whole strategy - investing a lot of energy and money in developing it - without actually learning and validating first if the ecosystem really exists and the strategy generates attraction and pull.

VUCA — VUCA is an acronym used to describe or to reflect on the volatility, uncertainty, complexity, and ambiguity of general conditions and situations in the modern world. It’s a key concept in Platform Design, as the shifting conditions of reality create the mounting **performance pressure** on entities in the ecosystem for which the platform strategy wants to be an answer.

The Entities in the Ecosystem

When developing a platform strategy, one needs to address, mobilize and support an **Ecosystem**. To make it easier for platform designers to confront the complexity of *designing for ecosystems*, we've created a simple framework to frame the entities involved in a platform strategy.

We differentiate entities into three groups:

IMPACT Entities

Impact related entities, Owners/Shapers, and External Stakeholders are not involved in the continuous interactions happening in the ecosystem.

Larger entities, mostly interested, interacting and impacted by the **whole system** dynamics, not by the punctual interactions.

- **Platform Owners/Shapers [PO]**
- **External Stakeholders [ES]**

DEMAND Entities

Entities that are interested in "consuming" the value produced in the ecosystem.

Normally Individuals or small-medium organizations that behave as a single, identifiable entity with a specific interest and identifiable objectives that the Platform's Value Proposition should meet.

- **Peer Consumers [PC]**

SUPPLY Entities

Entities that are interested in "producing" the value consumed in the ecosystem.

These entities are involved in continuous interactions.

In the Bitcoin ecosystem, *Bitcoin developers* can be considered the *shapers* (as compared to the actual owners of the infrastructure and value that are the Bitcoin miners and *Holders*).

➤ EXTERNAL STAKEHOLDERS [ES]

Stakeholders are entities that have a specific interest in platform success or failure, in controlling platform externalities and outcomes, in regulating it or in exercising rights in the platform governance.

This category normally includes, for example, all the actors dealing with the regulation and control of platform strategy on a local basis. It can also include the representatives of the plurality of peers and partners involved in the value creation, or any pre-existing institutions that can help the platform thrive. Additionally, this can include entities that can help distribute the strategy and help it grow. Normally, we're talking about entities that are hit by the positive or negative externalities of the platform.

EXAMPLES

A municipality affected by the gentrification effect of short time rentals that wants to regulate AirBnb. In a platform strategy that wants, for example, to help people "get fit", a provider of sports apparel can be an excellent PS, as it can hugely distribute and onboard new participants to the strategy, for example by mentioning this possibility to all its customers. Note that potential "distributors" are always great stakeholders to mention.

DEMAND Entities

○ PEER CONSUMERS [PC]

Peer Consumers (PC) who we may also call users, are entities interested in consuming, utilizing, accessing the value that is created through and on the platform.

They are individuals but can also be small/medium business and single representatives or teams in bigger organizations. Eventually, in some cases, they may evolve into peer producers when they realize that beyond fulfilling a need they can seek evolutionary opportunities to produce.

EXAMPLES

Travelers in AirBnb (PC), Bloggers in Wordpress (PC), Angels in AngelList (PC), Homeowners in Houzz (PC)

SUPPLY Entities

● PEER PRODUCERS [PP]

Peer Producers (PP) who we may also call producers, prosumers, and providers, are entities – most of the times individuals – interested in providing value on the supply side of the ecosystem/marketplace, usually seeking for opportunities to improve their professionalism and honing their capabilities towards a better performance.

Typically, these players produce value occasionally and not systematically. Often the same *peer* may behave as both consumer and producer in different phases of its relationship with the brand-platform. Like in the case of a traveler that also rents her house when she's not at home, such a user may sometimes contribute to the value and other times consume it, depending on lifetime phases, contexts and more. Peer producers can as well be SMBs or individuals.

EXAMPLES

Hosts in Airbnb (PP), a non-professional trainer (PP) in a platform strategy around the fitness ecosystems, an Uber X driver (PP) that drives only sporadically, a casual developer that is trying to publish her first app on the Apple marketplace (PP).

PARTNERS [PA]

Partners (PA) are professional entities – individuals and SMBs, most of the time – that seek to create additional professional value and to collaborate with platform owners on a stronger level of relationship.

Typically, partners are professional value creators that tend to specialize in a niche or advanced/premium product/service and become better and better within time. Partners sometimes also facilitate, cater and enhance the value production by acting as brokers, facilitators, connectors.

In particularly polarized platforms, where you substantially have two sides (supply and demand) the partner could be an evolution of the peer producer into a more professionalized role. This evolution is typically well received from the platform since partners drive more value than peer producers and are able to pull many other players towards a better overall platform experience.

EXAMPLES

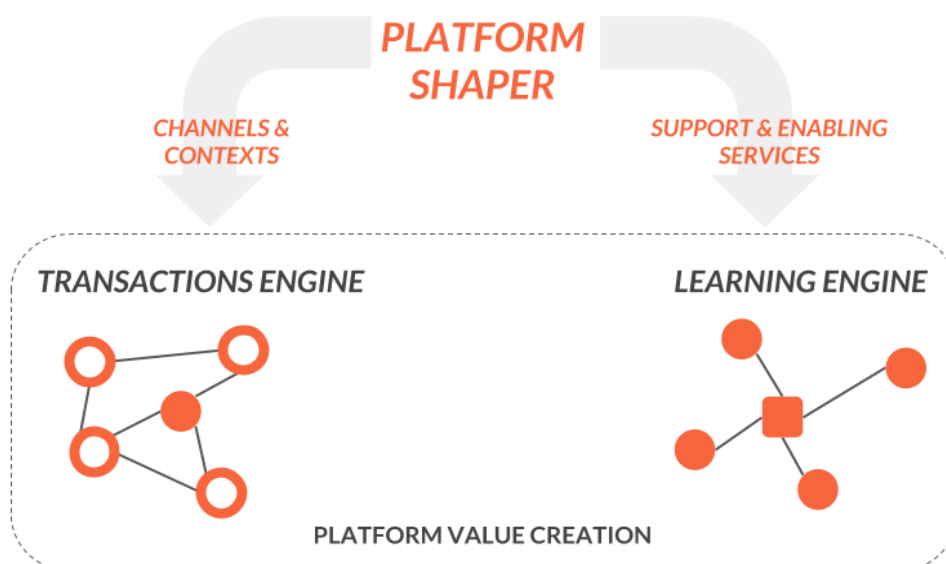
Airbnb Superhosts (PA), WordPress theme developers (PA), Companies developing applications on Apple or Android marketplaces (PA), Salesforce Forge developers (PA), AngelList syndication SuperAngels (PA), WordPress Cloud service providers (PA) ...

We just presented you with a possible way to classify entities in your ecosystem. It's highly possible that your ecosystem doesn't feature a "full" picture: it may not, for example, have any peer producers (often the case in Business to Business ecosystems). Sometimes it is also hard to figure out who is a partner or peer producer, but we normally don't care much about the difference. The reason for introducing the Partner and Peer Producer differentiation is to stress the point that - most of the time - real platform strategies mobilize wide ecosystems, involving producers of different types: some more strategic, professional, commercial (partners), some more informal (peer producers).

In the instructions coming later, we're going to be back on mapping, and especially focusing on how to group "entities" into "roles", to simplify and streamline your design.

The two key engines of Platform Design

In our understanding, any platform strategy is based on the creation of **two essential engines of value creation**. As a Platform Owner (or *shaper*), designing, building and evolving these two engines —and finding a sustainable model to do so —is the most critical challenge.



Transactions Engine

It's the set of **channels** and **contexts** specifically designed to facilitate interactions and exchanges between entities-roles. Transactions are—at least partially—already happening even before we deploy our strategy, however, the more a channel is designed to reduce the coordination/transaction cost, the more easily transactions can happen.

Why it's Important

Creating and improving channels to reduce transactions cost (allowing more niche interactions)

*By making interactions easier, faster, reducing the cost of interaction between value producers and value consumers, platforms that aggregate and facilitate interaction make it easier to interact in smaller niches: if the cost (as a producer) of coordinating with your consumer is lower, it will be easier to create a solution that fits exactly with the niche expectations. **Key Question to ask:** How is my strategy reducing the cost of interaction and improving the possibility to interact in the context I'm willing to shape and organize?*

Learning Engine

It's the set of support services and contexts that the platform shaper provides and maintains for the participants so that they can learn, improve and evolve. It's the way the platform shaper helps entities-roles to cope with and adapt to the complexity of the networked age.

Why it's Important

Creating a Learning engine to help ecosystems face VUCA

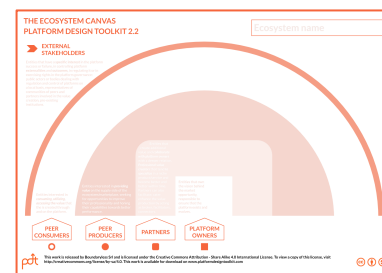
*As we live through a Volatile, Uncertain, Complex and Ambiguous World, platforms offer a huge promise of accelerated learning, ways to find new opportunities and hone new capabilities. The promise of a platform strategy is, essentially, that learning will happen faster by being "inside" than by staying "outside". **Key Question to ask:** What incremental process is available for the entities of my reference ecosystem to evolve? Am I offering radical opportunities for improvement?*

The Step by Step Platform Strategy Design Process

1 Mapping the Ecosystem

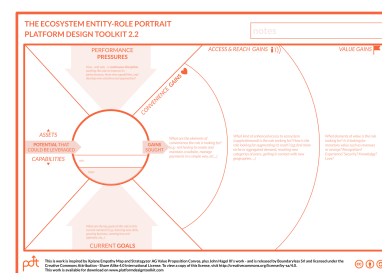
First, by using the **Ecosystem Canvas** you will reflect on the ecosystem you're looking to shape, and organize with your platform strategy.

You will map the **entities** present in this ecosystem and you will then understand what **roles** they might play, clustering them if necessary.



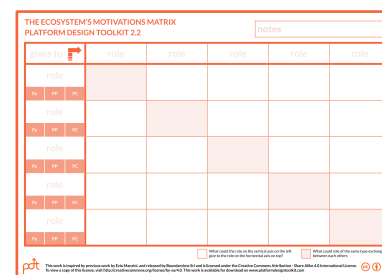
2 Portraying Ecosystem's Entities-Roles

With the **Ecosystem Entity-Role Portrait**, you will make a consistent deep picture of each entities-roles': what's their context, what they're trying to achieve, with whom and how they're trying to connect, what **potential** they can express. This will make you better understand what kind of "experience gains" they're looking for—and that you therefore should provide—as a platform shaper.



3 Analyzing the potential to Exchange Value

With the **Ecosystem's Motivation Matrix**, you will then analyze their potential to exchange flows of value: in other words, you will map what kind of **value exchanges** the entities are performing already (or trying to), and what additional type of value they might exchange if properly enabled.

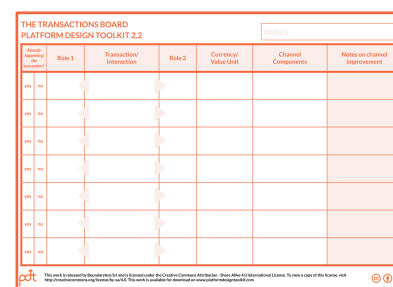


4 Choosing the core relationships you want to Focus on

At this point in the design process, it's important that the shaper identifies the **focus**: what are the entities in the ecosystem we want to focus on? What relationships are going to be the core of our design work (at least for this iteration?).

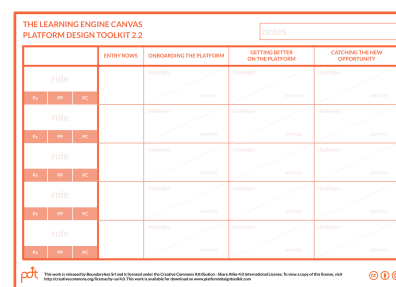
5 Identifying the Elementary Transactions

With the **Transactions Board** you will map how your ecosystem is currently exchanging value (focusing on the entities and the relationships you decided to prioritize), and you envision how your platform strategy can help them transact value in an *easier, cheaper* and *faster* way by providing, and curating **channels** and **contexts** that will make interactions and transactions more likely to happen.



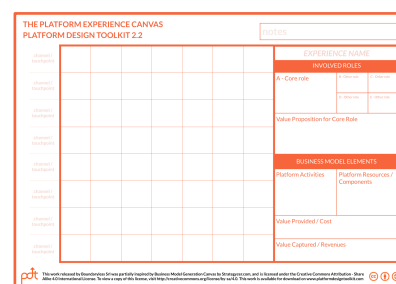
6 Designing the Learning Engine

With **Learning Engine Canvas** you will design a step by step process made of support/enabling services that will help your entities embrace your platform strategy. These services will help them evolve, emerge from the crowd, become better producers and consumers, and ultimately to undergo a radical evolution that will have them explore new opportunities, and behaviors not intended initially.



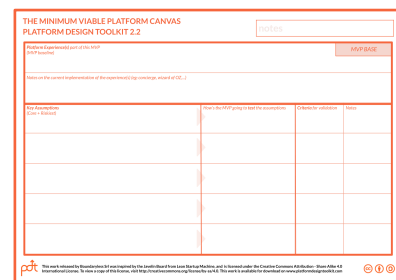
7 Assembling the Platform Experiences

With the **Platform Experience Canvas**, you craft an experience that synthesizes the core value proposition(s) arising from the Strategic Design phase and that - more than others - you consider essential for your platform strategy. With this canvas you will assemble the elements emerged from the Transactions Board(s) and the ones emerged from Learning Engine Canvas. You will then reflect around the sustainability model of this experience, thus covering the basic elements of Business Modeling, you will think at what resources and components you will have to set in place and manage in order to deliver this experience, and how you will extract value from it.



8 Setting up the Minimum Viable Platform

With the **Minimum Viable Platform Canvas**, you finally *move out of the building* to test in the real world if all your design assumptions have a future or not. By looking at your design outputs, especially the Platform Experience Canvas(es) you have compiled, you'll extract the riskiest assumptions in your strategy, and you'll set experiments and metrics to validate them with your ecosystem.



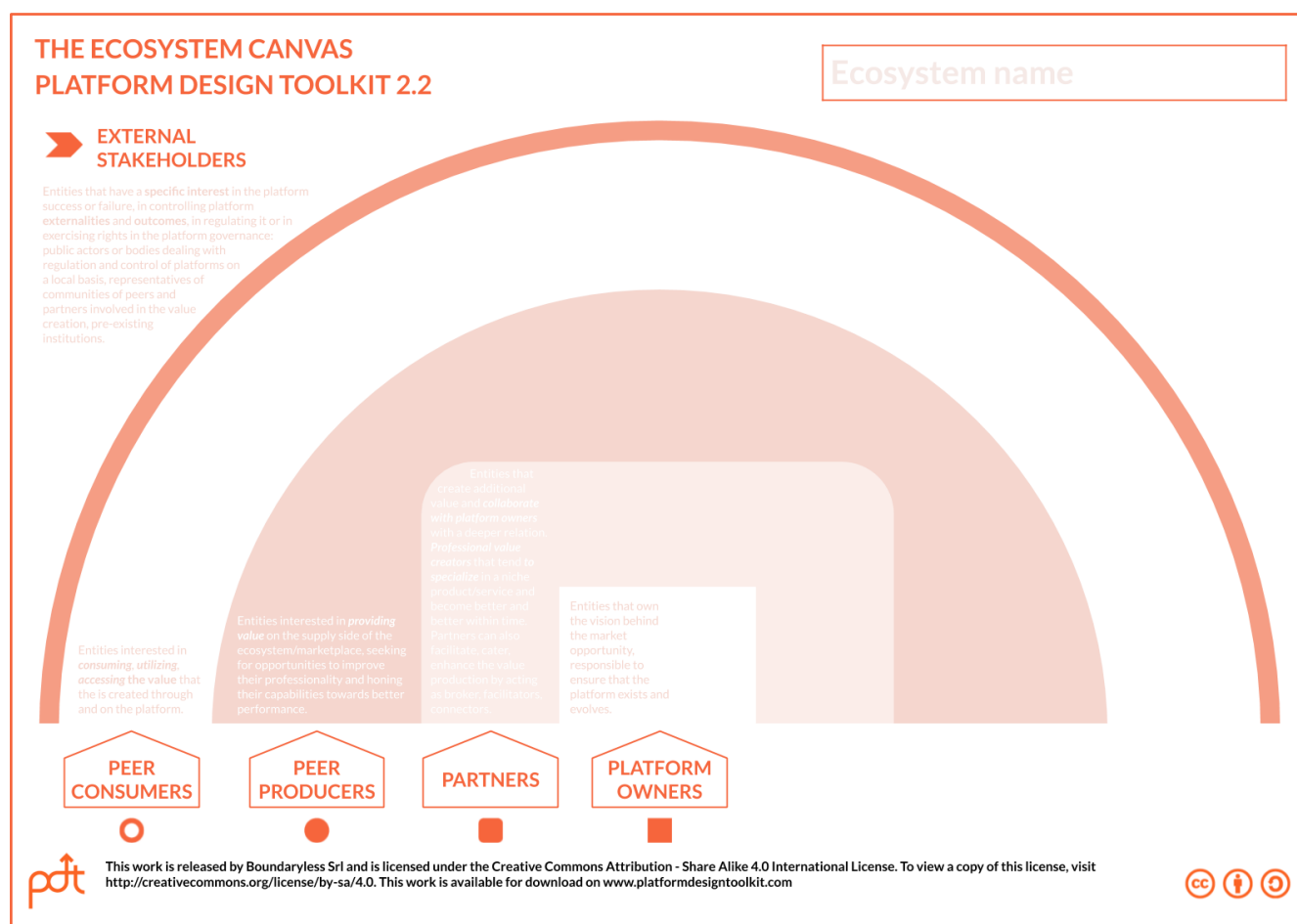
Box 3: PDT Digital Canvases on Miro

Miro is an online collaboration tool reshaping the future of teamwork. Now you can also work with our digital canvases with a Miro template from:

<https://go.realtimeboard.com/platform-design-toolkit>



1 Mapping the Ecosystem



Practical Steps Guidelines

- Start by enumerating entities: if you're in a group, try to diverge first, taking some time to brainstorm alone.
- Cluster similar entities together.
- Position PP/PC/PA based on the key value produced: are they consumers or producers?
- Choose a maximum of five entities in the PP/PC/PA (peers) spectrum. You can either cluster two similar entities (finding an overarching description) or just choose five you want to start with.

Suggestions

When you start mapping, most likely you'll map "entities", individual entities in your ecosystem that have a specific context, motivations, and expectations. To make your platform strategy more general and able to scale up, you'll want to keep as much of the ecosystem's potential as possible inside the reach of your strategy. You can, therefore, cluster similar entities by giving them a "common" name: by allowing two slightly different entities to play in similar ways, you'll design a more loosely defined "role" (instead of *entity*) that could be played by both.

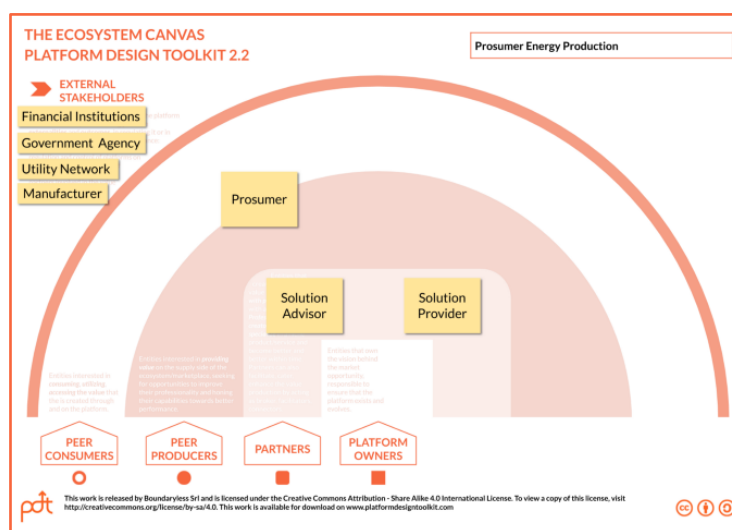
As an example, you can define a General Practitioner and a nurse, both "*healthcare professionals*". Any time you cluster a shared role for two or more entities, you'll lose some detail but, as your platform strategy needs to be able

to scale up, this is a good thing as they'll find their own way to participate, and you'll be able to keep both of them involved.

An Example: Prosumer Energy Production

In the ecosystem of independent renewable energy production - referred to here as *Prosumer Energy Production* - we could map the following entities: *Prosumer*, *Solution Advisor* and *Solution Provider* (see canvas to the right).

In this example, the *Solution Provider* is essentially a company that can technically install a certain solution, whereas the *Solution Advisor* clusters professionals working in that field, like engineers, architects, a construction company...



Note that solar panel manufacturers are seen as stakeholders in this example, since their products are nowadays pure commodities and the value of this ecosystem is accrued elsewhere.

You can access the whole example here: “A Platform Design Example Explained”

> <https://platformdesigntoolkit.com/Example>

Three Essential Tips and Tricks

- Use *post-its*, this will help you play around with entities, cluster them.
- Don't obsess about PC vs PP vs Partners - it's not so crucial, even if it's a good idea to figure out what is the key value provided (*renewable energy production*, in the example).
- Remember that you want to map entities involved in the *continuous interaction* as PC/PP/PA and not those interested in the whole thing (these are *platform stakeholders*). Always ask: how many of them? If you can only mention one or two, it's unlikely they're PC/PP/PA.

What do you end up with?

You'll have a list of all the entities that are already trying to exchange value in the ecosystem you're trying to shape.

How does this connect with the rest?

Starting from this list, you'll explore their context more in depth and start evaluating what value they exchange already, and what they could exchange.

Additional reads, from our blog

“*Design for Ecosystems: Emergence & Attraction*”. Will explain to you better <http://bit.ly/PDT-UG-DFE1>

“Design APIs for Disobedience”

Will tell you more about how to design loose platform strategies and let the ecosystem innovate, institutionalizing these innovations within time.

THE ECOSYSTEM ENTITY-ROLE PORTRAIT PLATFORM DESIGN TOOLKIT 2.2

notes



This work is inspired by Xplane Empathy Map and Strategyzer AG Value Proposition Canvas, plus John Hagel III's work - and is released by Boundaryless Srl and licensed under the Creative Commons Attribution - Share Alike 4.0 International License. To view a copy of this license, visit <http://creativecommons.org/licenses/by-sa/4.0>. This work is available for download on www.platformdesignerintoolkit.com.



- CONVENIENCE GAINS are all about any “easier, faster, cheaper” way to do things as compared to the current situation of the entity-role. This is going to be the part of a platform strategy that resembles more the solution to a problem.
- To identify the REACH GAINS the entities are looking for, ask yourself: “what is their *other half of the apple*” that these kinds of entities are seeking? What’s the perfect producer for this consumer (and vice versa)? REACH GAINS should help you explore what dimensions are important, inside your ecosystem, for entities to get in touch with the niche they’re looking for.
- Be sure you begin by first compiling the *Entity-Role Portrait* of the entity-role that seems the most interesting for your design challenge: for which entity-role are you designing for in the first

stance?

Suggestions

Portraying entities is an activity that differs slightly from traditional user research approaches. In our framework, ecosystem entities are **loose clusters** (see the reflection above with “healthcare professionals”), that’s one of the reasons why we call them also **Roles**. If you come from a user research approach you may, therefore, experience some issues while getting to the details of let’s say a real user profile, a persona, etc. That’s perfectly fine! When you do platform design you want to design a strategy that pulls a **much wider spectrum of participants** in that market, niche or context. For each role, you want to design a value proposition that can capture different adoption contexts.

Entity-Role Portraits are indeed a keystone exercise to craft the *narrative* and *value propositions* for your entities. Platform strategies have inherently multiple value propositions. The **value proposition** for an entity-role can be described as follows:

*“I’ll be able to leverage my **potential**, to reach my **goals** and cope with **performance pressures**, while the platform will give me access to easier, faster, cheaper ways of doing things (**convenience gains**), help me find exactly what I’m looking for (**reach gains**), and gain more value - whether money or somethings else - while fully expressing my potential (**value gains**)”.*

Finally: remember that you want to map what the entities you are looking to mobilize *right now*, *not in the future when your platform will exist*. In a nutshell, keep the focus on the ecosystem (outside-in), not on your “platform” idea. As an example: **gains** are those entities looking for in their **current** experience, not the gains you’re thinking to offer.

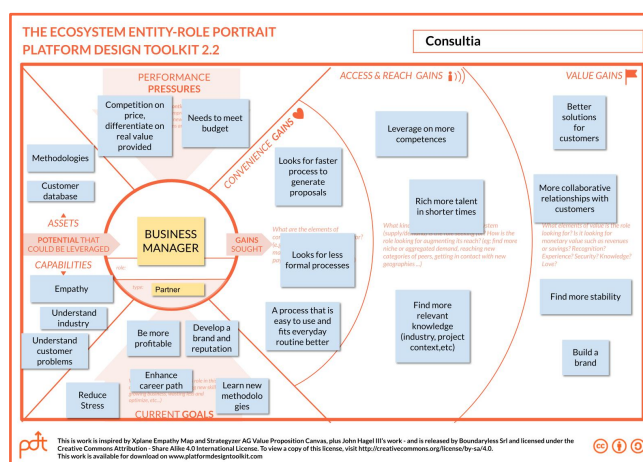
To understand this and other key questions of this canvas you may, of course, rely on your industry knowledge, intuition or, way better, on preliminary interviews. A platform strategy that is able to sustain participants while letting them express their potential, will be generating what we call the **pull** factor: a galvanizing attraction towards each of the entities. Each entity will, therefore, choose to play “inside” the strategy you’re going to offer, as it’s more convenient than—instead—staying outside.

Two examples

In this example, you can find an entity-role portrait for a *Business Manager* of a fictional consulting platform company called **CONSULTIA**. You can access the whole example here: “How to Platform-ize existing Processes”

> <http://bit.ly/PDT-UG-PEP>; the example of the EP for the Airbnb host is also available here:

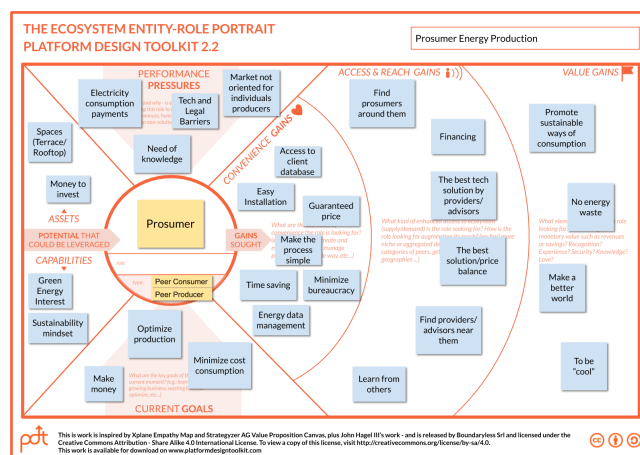
<http://bit.ly/PDT-UG-EUG>.



In the **Prosumer Energy Production** example we capture the *Prosumer* as highly motivated not only by economical returns but also by a green spirit, even if (s)he is currently blocked by the high entry barrier to having a renewable energy plant at home due to bureaucracy, hard-to-be-estimated costs, uncertainty and lack of trust on the vendors and suppliers side.

You can access the whole example here: “A Platform Design Example Explained”

> <https://platformdesigntoolkit.com/Example>



Three Essential Tips and Tricks

- Use *post-its*, this will help you move elements around and get to a clearer view.
- Start by the potential and then move into the compressors (goals and performance pressures), and then gains.
- It's a good idea to run a round of informal interviews (open-ended) with representatives of your entities groups, or even to get them to participate in the mapping exercise.

What do you end up with?

You'll have a clear understanding of your ecosystem's entities context (you've been wearing their clothes), and also a raw idea of your multi-sided Value Propositions

How does this connect with the rest?

Remember to map the entities you feel more important, as further on in the process you'll need to cross check your *Platform Experience Canvas* with the relative *Entity-Role Portraits*, to verify you can generate the “pull”!

Additional reads, from our blog

“Evolving User Research in the Age of Platforms & Ecosystems”

Will explain to you the key differences in the approach needed when designing mobilization strategies (platforms) vs products and services. You can also find the Airbnb Host example over there!

<http://bit.ly/PDT-UG-EUG>

“How to Platform-ize existing Processes – Stories of Platform Design”


The reader may also enjoy an additional example, approaching the transaction model in an existing context: the CONSULTIA case study.

<http://bit.ly/PDT-UG-PRO>


3 Analyzing the *Motivations to Exchange Value*

THE ECOSYSTEM'S MOTIVATIONS MATRIX
PLATFORM DESIGN TOOLKIT 2.2


notes

gives to 	role	role	role	role	role
role					
Pa PP PC					
role					
Pa PP PC					
role					
Pa PP PC					
role					
Pa PP PC					
role					
Pa PP PC					

☐ What could the role on the vertical axis on the left give to the role on the horizontal axis on top?
 ☐ What could role of the same type exchange between each others



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Practical Steps Guidelines

- Put your selected entities in the same order on the 1st row and column: as an example, the cell in row 1 and column 2 should contain what the entity in row 1 “gives to” (or has the potential to “give to”) the entity in column 2.
- Start by analyzing the value flows between entities of a different type, then move into the same entity types (middle diagonal).
- Not all cells must be full with flows, it may be the case that there’s not much value flowing or potential to flow: this should tell you something!

Suggestions

The *Motivations Matrix* is a highly divergent tool: you'll need to map all the current and potential **flows of value** that you see happening (or potentially happening) between the entities-role. Keep your mindset open to see anything might be interesting and important. This is really a moment in which you listen to your ecosystem: listen to what they're telling you. What you're trying to map here is no more than what one entity can "give to" each other.

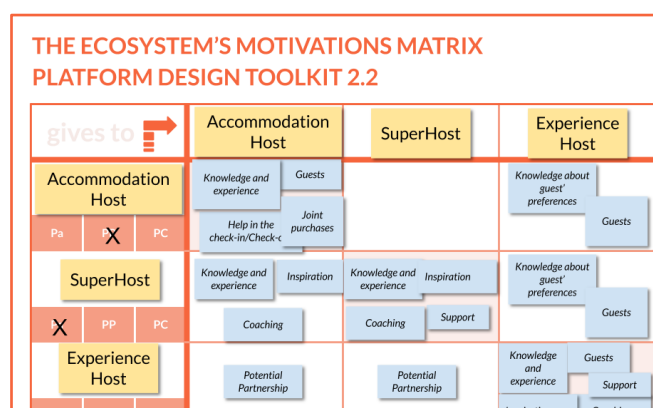
This exercise will help you let the most important relationships emerge, as we'll see later: you may well be surprised by some relationships that you didn't deem "crucial" for your design, but that can emerge powerfully as important.

Two Examples

Look at the ecosystem of Airbnb:

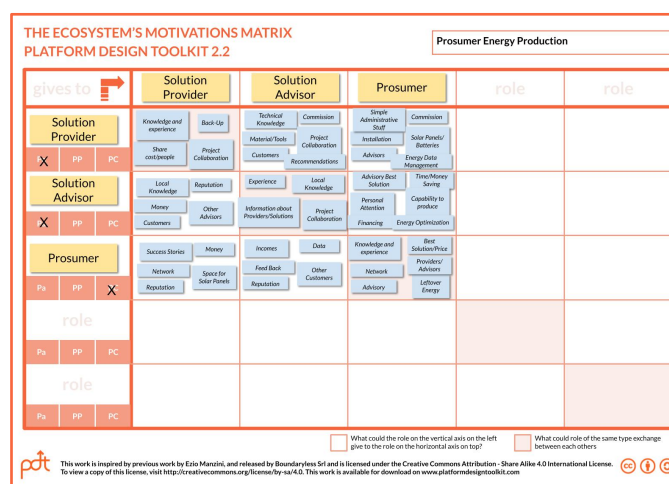
It's important to note that, in this case, the ecosystem existed before Airbnb (hosts, guests) but Airbnb helped more figures emerge.

Note that it's very important to map reputation and feedback exchanges as these are powerful quality filters!



Look at the motivations matrix related to a subset of the ecosystem of *prosumer energy production*:

We can highlight here a very interesting interaction: that between prosumers and solution advisors. Solution advisors are experts on the specific technology and advise on the best technical and economical solution for the final users. Sometimes Solution Providers have an interest in playing the advisor role to the users, but making the two roles separate can provide a more transparent solution design process, and more competition on efficiency between providers.



You can access the whole example here: "A Platform Design Example Explained"

> <https://platformdesigntoolkit.com/Example>

Three Essential Tips and Tricks

- Don't ask if something is right or wrong: just map and generate divergence and abundance!
- It's really important to map any possibility to exchange money, reputation, and feedback as these are powerful engines of value exchange and can drive up quality.
- Just ask yourself "what can A give to B?" and be surprised by the answers

What do you end up with?

You'll have a clear understanding of the potential to exchange value in the system, plus an indication of what are the most powerful relationships (where most of the value can flow).

How does this connect with the rest?

This exercise brings you to identify the initial part of the transactions engine potential: you'll use the information from the motivations matrix to feed into the *Transactions Boards*, and consolidate the design of your transactions engine.

4 Choosing the Core Relationships you want to Focus on

Once you have your **Entity-Role Portraits** and **Motivations Matrix** ready, it's time for you to start *focusing* in depth on what part of the strategy you want to first develop. Despite the fact that the ecosystem you're designing for is - and always will be - varied and abundant (and being alive it will evolve in mostly unforeseeable directions) it's a good idea for a strategist to find a **core focus** when developing the first steps of a platform-ecosystem strategy.

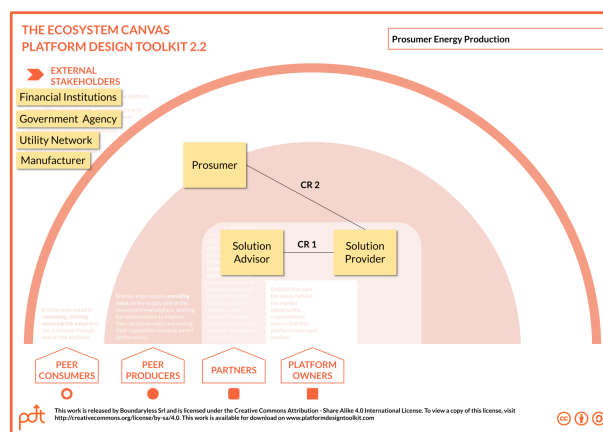
It's important to note that one can unroll a platform strategy in different steps, for example by deploying different experiences within time, all carrying different business models, and target entities. At this moment of your design session, you'll need to ask: **what are the one, two, three key relationships I want to design for?** It's very important to start thinking in terms of relationships because relationships are the roots of the experiences you will design.

Let's go back into the *Prosumer Energy Production* ecosystem. Among the many players that we identified, there's an abundance of possible relationships that are worth exploring. If you focus on the relationship between a **Prosumer** and a **Solution provider**, what would be the experience you end up designing? Most likely a "Get Powered and Save Money" (or 'Setup Home Power Grids', if I look from the other point of view) experience.

What happens if, instead, you focus on the relationship between a **Solution Provider** and a **Solution Advisor**? Most likely the experiences we end up designing will be about *local brand ambassadors* or finding *financing sources* for the installation.

To understand what are the relationships worth focusing on is not an easy catch: this will depend on your interests, priorities and existing reach, but also from what the ecosystem tells you about the **potential value flows**.

As we anticipated above, in the *Prosumer energy production ecosystem* it may be worthwhile to focus on the relationship between the two sides of the market (Solution Advisor - Solution Provider), ending up designing a professional collaboration experience.



THE ECOSYSTEM'S MOTIVATIONS MATRIX PLATFORM DESIGN TOOLKIT 2.2

gives to	Solution Provider	Solution Advisor	Prosumer
Solution Provider	Knowledge and experience Share cost/people Project Collaboration	Technical Knowledge Material/Tools Customers Recommendations	Simple Administrative Staff Installation Solar Panels/Batteries Energy Data Management
Solution Advisor	Local Knowledge Money Customers	Reputation Other Advisors Information about Providers/Solutions Project Collaboration	Advisory Best Solution Personal Attention Financing Energy Optimization
Prosumer	Success Stories Network Reputation	Money Space for Solar Panels	Knowledge and experience Best Solution/Price Providers/Advisors Leftover Energy

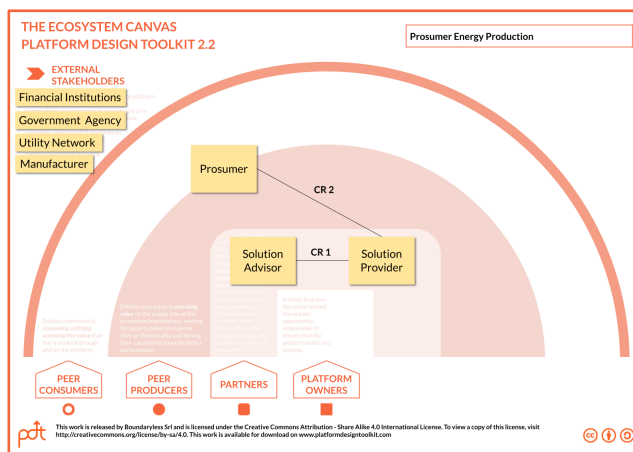
Prost

It's normally a good practice - according to our experience - to pick a triangular set of relationships, and try also to identify a "Core Entity".

You can access the whole example here: "A Platform Design Example Explained"

> <https://platformdesigntoolkit.com/Example>

The core entity that you'll identify might be the one you *prioritize* for: for example the one from whose point of view you'll likely design the first experiences.



It's a good idea at this point to double check if you've got the Entity-Role Portraits for all the entities you've chosen in your core system (especially the "Core Entity-Role"). If you don't, it's important to come back to portraying the remaining entities as it will be essential for you in the **reality check phase** on the potential that your strategy has to generate **pull**!


We recommend you to read "**Design for Ecosystems: Emergence & Attraction**" (see: <http://bit.ly/PDT-UG-DFE1>) to understand more of how to prioritize entities, and why it makes sense in this open-ended process that is platform design.

5 Identifying Elementary Transactions & Channels


THE TRANSACTIONS BOARD
PLATFORM DESIGN TOOLKIT 2.2

notes

Already happening the ecosystem?		Role 1	Transaction/ Interaction	Role 2	Currency/ Value Unit	Channel Components	Notes on channel improvement
yes	no						
yes	no						
yes	no						
yes	no						
yes	no						
yes	no						
yes	no						



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Practical Steps Guidelines

- Identify the relationship you're exploring and try to focus on one relationship at a time. We suggest you run a *Transactions Board* for each relationship you identified in your "Core System" first.
- By looking at the elements emerged in the *Motivation Matrix*, enumerate all the elementary, atomic transactions you can see already happening in the ecosystem, as well as the ones that may happen if facilitated enough. Think of how you can reduce transaction cost for these interactions to happen in an easier way.
- If two transactions don't make sense being separated from each other, you can group them (eg: *book and pay in advance* in Airbnb).

Suggestions

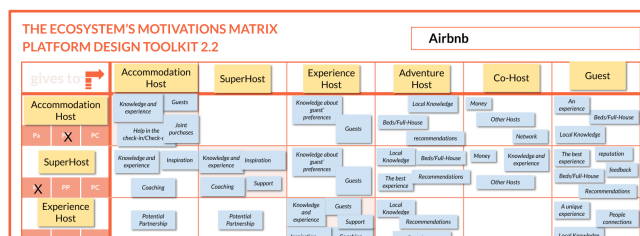
The Transactions Board should help you, once you're focused on a given relationship, to enumerate all the transactions that happen already, or might happen if facilitated by a platform strategy. One of the key roles of the platform shaper (owner) is that of creating channels that can reduce the coordination/transactions cost³. When thinking of improvements you can bring to the channels - for interactions to happen at scale in an easier way - and what components & features should these channels have, try to not stick to software-based thinking. Often reducing transaction cost means reducing unnecessary steps and bureaucracy (think of vanilla contracts, process wizards, offer-templates, payment channels, etc.). Also, it's a good idea to focus on *atomic transactions*, because essentially we want to enable them to happen at scale.

Sometimes this exercise may sound awkward and counterintuitive (too simple or at a too low level), or you may end up asking, "what am I designing here?". The key to understanding this exercise is to understand that your mission here is to identify what transactions & channels already exist, how they can be improved and what new ones you need to create to enable interactions and transactions at scale. Furthermore, this "low level" design exercise will be incredibly useful when assembling the *Platform Experiences*. It's also very important to understand that we're moving from *value flows* into *value units* so that it becomes very important to try being specific in describing the type of unit of value that gets exchanged. In this way, we can be precise when envisioning (later) what value/business model we can attach to a certain platform experience.

Two Examples

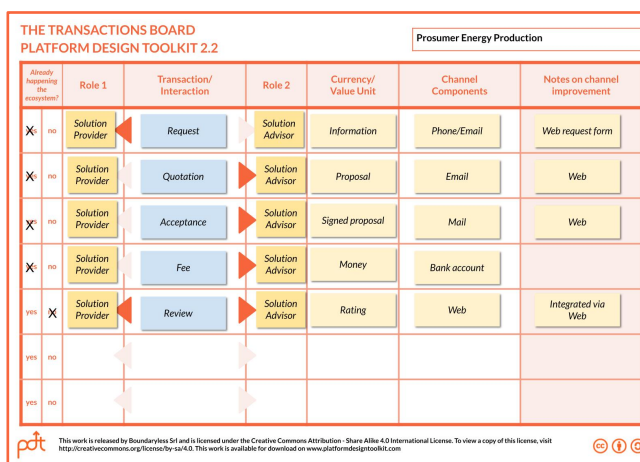
Look at the first core of transactions enabled in Airbnb, between the first entities (relationship)

It's important to note that the Airbnb transaction model, at the start, was extremely simple: this helped Airbnb scale quickly and easily.



Simple transaction engines are quicker to grow: as we explore higher value ecosystems, and more complex relationships we may have to confront more complex interactions.

Let's look for a moment at the transactions board related to the relationship between the solution provider and the solution advisor in the *prosumer energy ecosystem*. As you can see here, we're more or less mapping what's happening already in this industry: here our mission is more that of understanding how we could improve the channels and how we can consolidate the value units exchanged.



³ see [page 12](#) "The two key engines of Platform Design".

A new channel can be established, enabling ratings and feedback exchange. This is a direct advantage for the consumers, who can finally choose the best suppliers for their needs and select the offering based on their special needs. Of course, on the other hand this would let the best producers emerge, contributing to the improvement of the quality of the services exchanged.

You can access the whole example here: “A Platform Design Example Explained”

> <https://platformdesigntoolkit.com/Example>

Three Essential Tips and Tricks

- Don't be too restrictive in what a *channel* is or is made of: a channel is everything that makes an interaction easier to happen (an event? A template document, a contract etc.). Don't think too much in terms of software (websites and apps), because we know that platforms are not only technologies, they're mostly about reducing bureaucracy and unnecessary waste so that ecosystems can manifest their potential.
- Try to think in terms of “actions”: a transaction is most likely being modeled as an action/verb.
- Use the arrows to determine the directionality, sometimes transactions can also be bi-directional.
- In the “notes on channel improvement” focus on how the new channel you're envisioning may positively impact (with a reduction of) the transaction cost.

What do you end up with?

You'll have a simple model of atomic transactions, and a list of channels that you'll need to build as a platform owner.

How does this connect with the rest?

The Transaction Boards will provide you one type of bricks you will need to combine with other types of bricks, in the constructions of the *Platform Experiences*.

Additional reads, from our blog

“Why Platform Strategies are all about reducing Transaction Cost”

On this post, you'll find a deeper explanation on why reducing the transaction cost is a key element of your platform strategy.


<http://bit.ly/PDT-UG-RTC>

6 Designing the Learning Engine


THE LEARNING ENGINE CANVAS
PLATFORM DESIGN TOOLKIT 2.2

notes

	ENTRY ROWS	ONBOARDING THE PLATFORM	GETTING BETTER ON THE PLATFORM	CATCHING THE NEW OPPORTUNITY
<div>role</div> <div>PaPPPC</div>		<div>challenges</div> <div>services</div>	<div>challenges</div> <div>services</div>	<div>challenges</div> <div>services</div>
<div>role</div> <div>PaPPPC</div>		<div>challenges</div> <div>services</div>	<div>challenges</div> <div>services</div>	<div>challenges</div> <div>services</div>
<div>role</div> <div>PaPPPC</div>		<div>challenges</div> <div>services</div>	<div>challenges</div> <div>services</div>	<div>challenges</div> <div>services</div>
<div>role</div> <div>PaPPPC</div>		<div>challenges</div> <div>services</div>	<div>challenges</div> <div>services</div>	<div>challenges</div> <div>services</div>
<div>role</div> <div>PaPPPC</div>		<div>challenges</div> <div>services</div>	<div>challenges</div> <div>services</div>	<div>challenges</div> <div>services</div>



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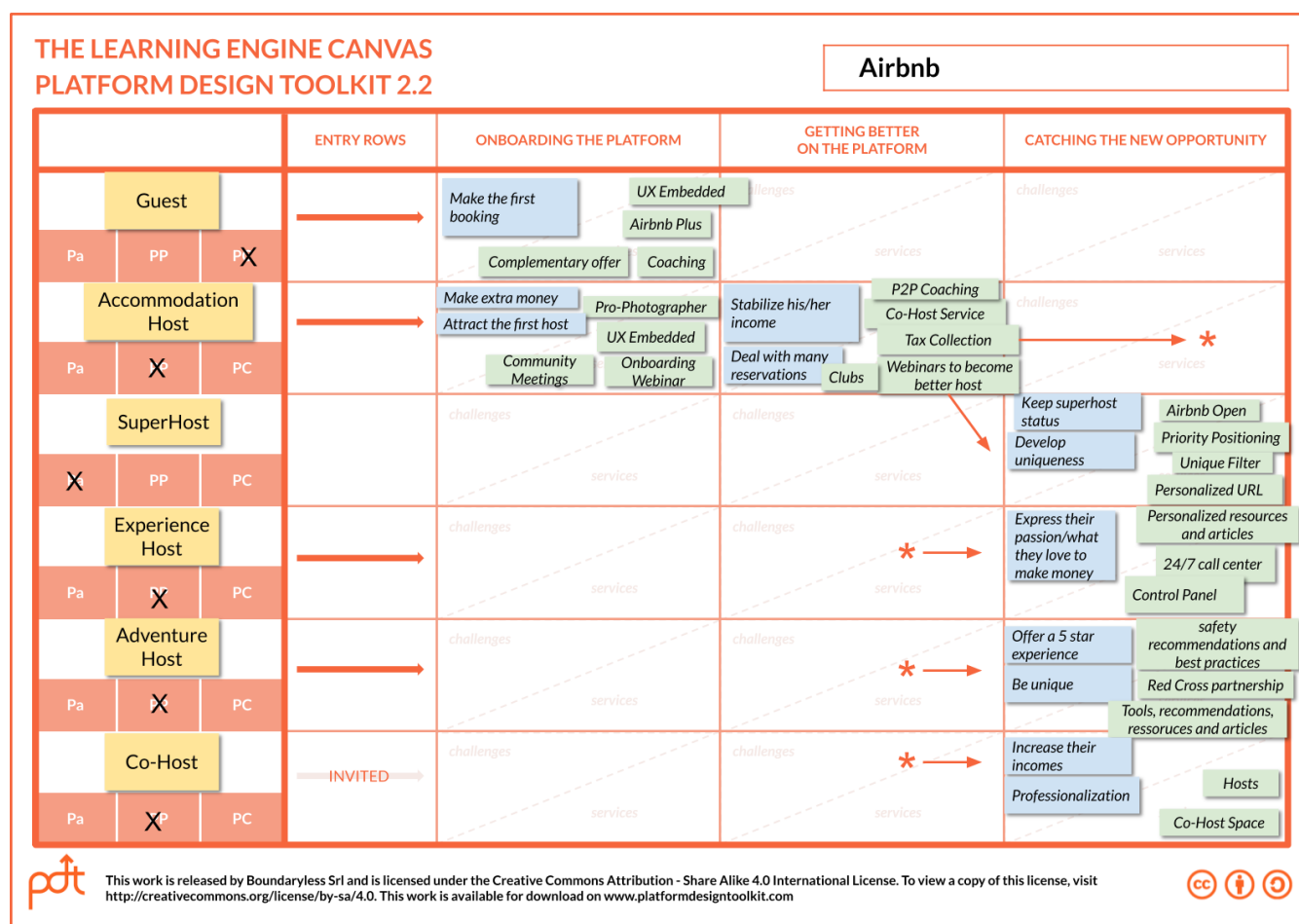
Practical Steps Guidelines

- Place each entity-role using a box on the left column and start exploring how they evolve through the three steps (ONBOARDING, GETTING BETTER, CATCHING NEW OPPORTUNITY);
- After that, imagine how there could be an evolution between different entities-roles: how can a consumer become a producer? How can a peer producer (less strategic) become a partner (more strategic)?

Suggestions

Why do we talk about a *learning* and *improvement engine* when we talk about platforms? As we live in complex times, entities in ecosystems are subject to continuous performance pressure. The *Learning Engine Canvas* provides you a three steps process framework to design services (broadly defined) to support your entities at every step: every step comes with a **key challenge** - like for users initially: finding the right type of service for their needs - what can you design to provide them with the right aids to overcome the challenges? Focus on one (or few) key challenges for every step, and one (or few) key services. This is where you design most of your platform strategy as an owner: the way you support your ecosystem entities to become the best they can be!

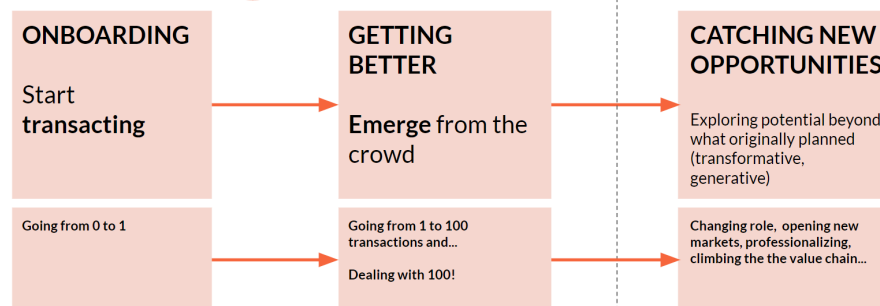
The Airbnb Example



The Learning Engine Canvas is all about how you support your entities in the three-step process of improvement.

In the *onboarding* phase, you need to help the entities go from 0 to 1: it's important to understand that we're interested in making the first transactions happen.

THE THREE PHASES



The photographer service⁴ from Airbnb is iconic of onboarding: having nice pictures of your house is a well-known booster for new hosts, a powerful way to help them attract the first guests when they

⁴Airbnb: Get a quote for a professional photographer? https://www.airbnb.com/professional_photography

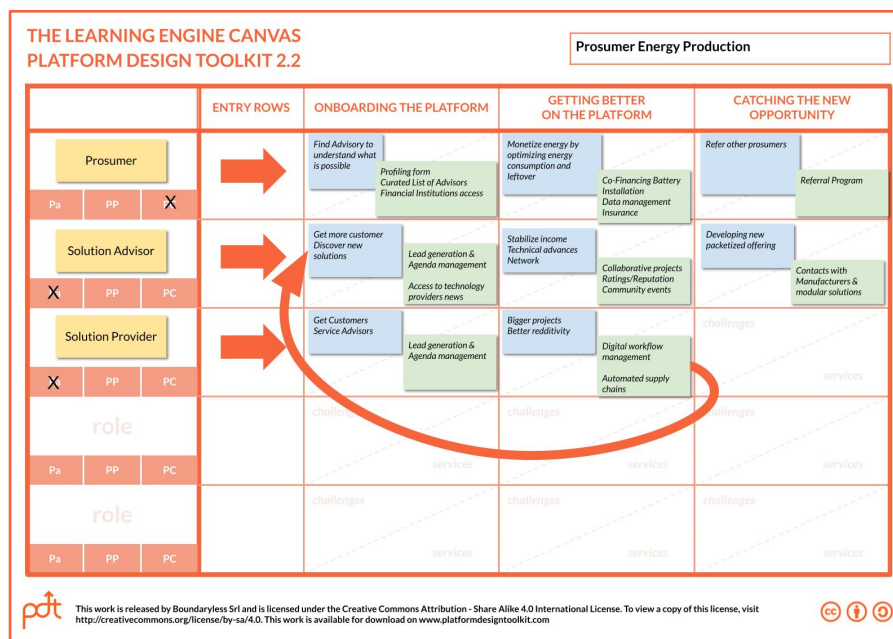
don't have a visible reputation yet. When it comes to *getting better* it's always about helping your entities grow from 1 to 100 and also deal with increasing demand (indeed, this step is mostly interesting for value producers PP, PA). Also, consumers could get better (try to ask the question contextually).

Catching new opportunities finally is almost always about new ways to interact in the ecosystem, it's normally a transformative moment, where the entity explores opportunities beyond what was originally planned (transformative, generative), such as changing roles, opening new markets, professionalizing, or climbing the value chain.

In the example of Airbnb, we could focus on the *Co-host*⁵ role: co-hosts can host for others. We can see the co-host as a support service for the hosts that can't deal with increasing demand (*"I don't host professionally but I've got a second house and I need someone to help"*), or as an opportunity for hosts that learn to love hosting and can be doing it just... professionally!

The Prosumer Energy Production Example

Prosumers want to find the best technical and economical solution for their needs, and here they have lists and catalogs that help them find the right supplier and the viable financing method, to have the best power system installed. They will later *get better* by exploiting the power generation at its best (i.e. maybe by adding components or insurances) and explore new opportunities by stepping into energy trading, or local grids (i.e. selling the electricity in the neighborhood, increasing the energy resiliency of communities) or simply by referring other consumers as potential customers for the supply side.



Solution advisors and **Solution providers** need tools to make their daily routines optimized and reduce costs. An interesting evolution for providers could be to increase their scope and robustness by partnering with different professionals: an automated supply chain produced by the platform owner could help providers focus on the technological advancements, and reduce cost due to mass buying. Advisors on their hand could start thinking to get larger contracts by collaborating with general-purpose installers, for instance, or directly with manufacturers.

⁵ Airbnb: What's a Co-Host? <https://www.airbnb.com/help/article/1243/what-s-a-co-host>

You can access the whole example here: “A Platform Design Example Explained”

> <https://platformdesigntoolkit.com/Example>

Three Essential Tips and Tricks

- Practical onboarding steps for consumers are normally: understanding what they can consume (checking the menu), while in the getting better they can explore more advanced consumption patterns (eg: bundles)
- Practical onboarding steps for producers are: explaining to the ecosystem what they can offer (writing the menu!), and getting better normally means offering more complex things, sometimes in combination with others (bundling) or with the platform (eg: badged roles, see Airbnb’s “Superhost”)
- Try to identify connections with consumption and production sides of the marketplace: if you’re lucky to have a potential evolution path that connects the two you may have an internal growth engine!

What do you end up with?

At the end of this exercise, you will have a structured idea of what kind of services (broadly speaking) should your platform strategy provide to the entities, to allow them to improve continuously.

How does this connect with the rest?

Learning support services are the other essential set of Lego bricks you will use to compose the platform experiences: this set of bricks is all about the relationship between platform (owners/shapers) and entities, while the transactions are the relational, peer to peer, bricks.

Additional reads, from our blog:

“Why Platforms need to be Engines of Learning”

<http://bit.ly/PDT-UG-ELE>

Despite being a bit old, this post will introduce you to the idea of offering an engine of learning as an answer to the continuous disruptions of the interconnected age.


7 Assembling Platform Experiences

THE PLATFORM EXPERIENCE CANVAS


PLATFORM DESIGN TOOLKIT 2.2

notes

channel / touchpoint							<div>EXPERIENCE NAME</div> <div>INVOLVED ROLES</div> <div> <div>A - Core role</div> <div>B - Other role</div> <div>C - Other role</div> <div>D - Other role</div> <div>E - Other role</div> </div> <div>Value Proposition for Core Role</div>
channel / touchpoint							<div>BUSINESS MODEL ELEMENTS</div> <div> <div>Platform Activities</div> <div>Platform Resources / Components</div> </div> <div>Value Provided / Cost</div> <div>Value Captured / Revenues</div>
channel / touchpoint							
channel / touchpoint							
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channel / touchpoint							



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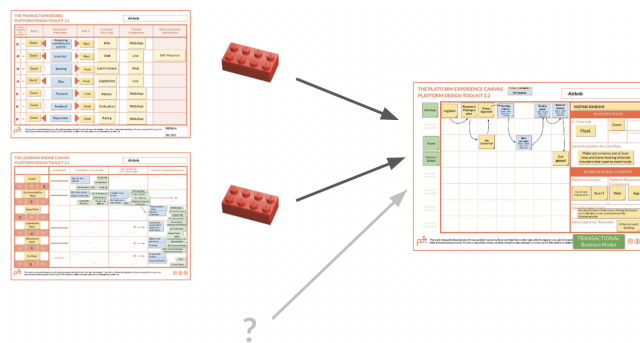
Practical Steps Guidelines:

- Give the experience a name, choosing the entity of which you're using the point of view (core entity)
- Use the canvas without restrictions
- Use different post-it colors to identify entity-to-entity and platform-to-entity interactions
- Use post-its to play with the steps so that you can move them around until you reach a good flow
- Explore the business model only at the end, when you can see the full flows of value

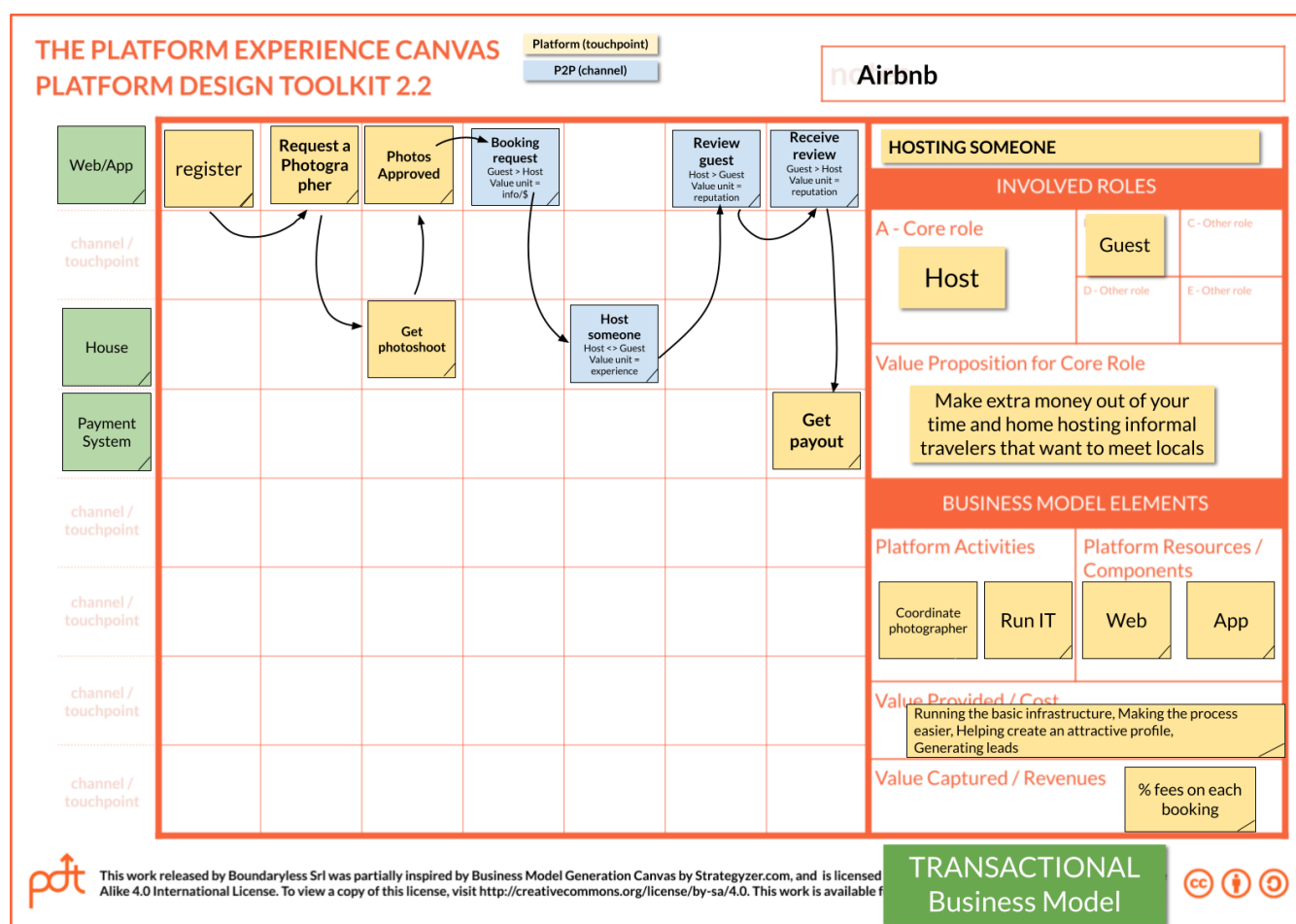
Suggestions:

The *Platform Experience Canvas*, is the tool we use to consolidate most of the previous insights and conversations. To build the platform experience one can use three essential types of bricks:

- The **services** that the Platform Owner provides for continuous improvement as part of the Learning Engine
- The **atomic transactions** happening between the entities in the ecosystem
- Further **elements** of consumable services, functionalities, support services that serve to complement the experience.

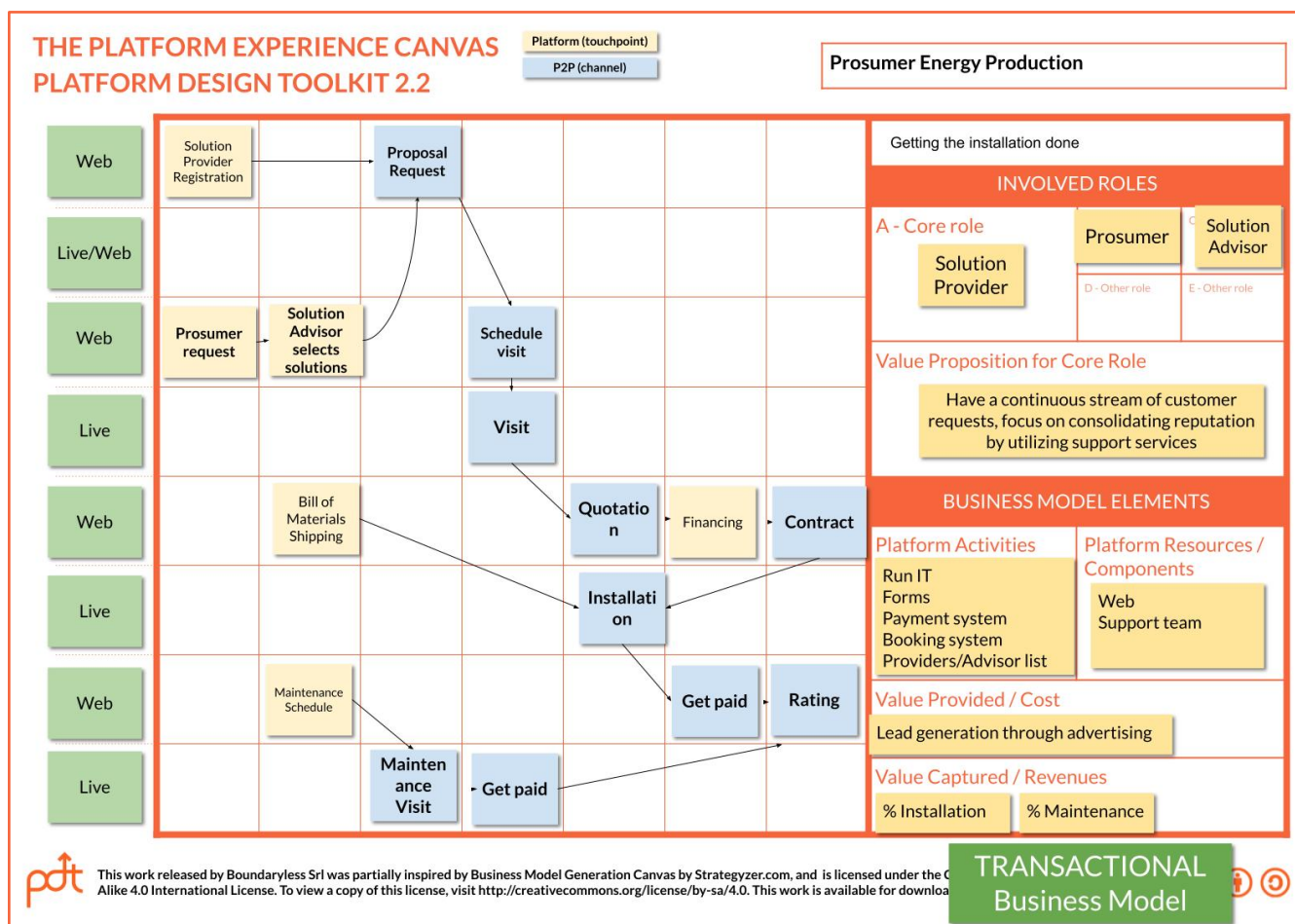


The Airbnb Example



Let's look at the simplicity of the hosting experience on Airbnb; it all starts with the host onboarding steps (registering, getting a photoshoot) and then moves into the interaction: booking, hosting and reviewing. As you can see, yellow post-its represent interactions with the platform (owner) and blue ones represent entity to entity interactions.

The Prosumer Energy Production Example



In the Prosumer Energy Production example, by reducing the paperwork, and the friction generated by the lack of clarity on expectations and offerings, we step into a win-win game. The overall installation turnover is increased, consumers are happier since they could evaluate serenely an investment opportunity and hopefully stay in the approved budget, solution suppliers (advisors and providers) can emerge according to their professionalism and quality.

In this example, we have a clear **transactional business model**, since the platform can charge users with a fee per transaction and, for this reason, it's offering free learning (i.e. free information and guidance) to all the interested parties. This opportunity to learn and improve is a strong attraction point towards the ecosystem and that is why it's important not to hide it behind a monetary request. On the other hand, it's possible to imagine different sustainability models: for instance, if the platform strategy focuses on producers, maybe they will appreciate membership-based access to free networking and partnering opportunities, or to curated catalogs of solutions.

You can access the whole example here: "A Platform Design Example Explained"

> <https://platformdesigntoolkit.com/Example>

Three essential Tips and Tricks:

- Describe the Value proposition as something that resonates with the *Entity-Role Portrait* of the core entities-roles: allowing them to leverage on their potential, to achieve goals and respond to performance pressures, getting relevant gains in the process while expressing their craft.
- Choose one point of view, in a relationship: keep an eye on the relative transaction board, to pick all the interactive elements.
- Focus on the *onboarding* and *getting better* parts of the *Learning Engine Canvas*: most likely the transformative (getting to the new opportunity) event, will be part of ... just another experience.

What do you end up with?

You'll have a tangible sign of your platform strategy: if someone asks you, what's your *platform*, a platform experience is a good candidate as an answer. The platform experience is what you want to bring to the ecosystem.

How does this connect with the rest?

One or more platform experiences will be part of your *MVP*, and will drive how you build the experiments you want to build (if your strategy is already existing).

8 Setting up the Minimum Viable Platform

THE MINIMUM VIABLE PLATFORM CANVAS
PLATFORM DESIGN TOOLKIT 2.2


notes

Platform Experience(s) part of this MVP
(MVP baseline)


MVP BASE

Notes on the current implementation of the experience(s) (eg: concierge, wizard of OZ,...)

Key Assumptions (Core + Riskiest)	How's the MVP going to test the assumptions	Criteria for validation	Notes



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Practical Steps Guidelines

- Start by defining what are the experiences you want to feature in the MVP.
- Understand what are the **key assumptions** in these experiences.
- Imagine how you can build the leanest MVP possible, and how this MVP is going to test the assumptions.
- Pick the most unbiased criteria for validation, e.g. testing measurable conversion rates, for example from invitations to a temporary social media group.

Suggestions

Setting up the *Minimum Viable Platform* is, essentially similar to setting up a *Minimum Viable Product*: the biggest of the differences relies upon the fact that a platform strategy is an “interactive” product and that the platform value normally grows with the generation of network effects. Normally we suggest *validating*, as soon as possible, at least the following assumptions: business model, trust and attraction.

Is it clear what the business model assumptions are? (i.e. is the business model actually working?) What is the attraction assumption? (i.e. is the value proposition working? Are the entities feeling the attraction towards the platform?). The trust assumption may be more complex to understand. With trust assumption, we intend every assumption related to moving from consuming a solution coming from an industrial player to consuming a service in direct interaction with a peer. People are used to booking a room in a hotel, but would they travel to a stranger's house? Apparently yes.

The Airbnb Example

Platform Experience(s) part of this MVP (MVP baseline)		MVP BASE	
Notes on the current implementation of the experience(s) (eg: concierge, wizard of OZ,...)		HOSTING SOMEONE	
		No website, Use a facebook group for booking	Use direct phone calls for reputation tracking and experience review
		Concierge implementation (manual)	
Key Assumptions (Core + Riskiest)	How's the MVP going to test the assumptions	Criteria for validation	Notes
People will be interested in hosting strangers in exchange of money if we ensure identities	Invite selected users to a facebook group, certify their identity first and ensure you do with others	> 50% of the people we invite will join the group	
Curated images will increase willingness to book stays	Make pro-pictures and help publish them in the facebook group photo album	Participants with Professional pictures in the album will convert more	
Guest and travelers will be happy to pay a % Fee in exchange of lead generation and transaction management	We collect the fee by paypal after the completion of the stay but we make it clear at first invitation	After being instructed that there's a % fee to pay participants will finalize transaction	

How would an MVP for Airbnb be if we should prototype it today? We could use a Facebook group and Paypal for escrow payments and make a so-called "concierge" implementation (an implementation of an MVP where you don't prevent the user from understanding that you've built a prototype and that some of the work happens ...manually.)

Three Essential Tips and Tricks:

- Start always by looking at what you have: you may have some resources ready that you can easily combine in an MVP, or just leverage on (eg: a list of contacts)
- Don't procrastinate the validation of your business model assumption
- Enumerate the assumptions with your team and only after you've listed them all, try to identify the riskiest!

What do you end up with?

You'll have a clear setup of an MVP, something that you can now go prototype and use for learning if your riskiest assumptions are true or not..

How does this connect with the rest?

Validating or invalidating the assumptions in the MVP should help you to get back to the design and potentially make different choices. Once your ecosystem-platform fit is validated then you'll need to think about your growth strategy.

Additional reads, from our blog

"Design For Ecosystems: Discovering Potential and Testing Assumptions."

This post will cover widely how a good approach to validation interviews can be derived from the practices of customer development and will provide great guidance for the early steps of validation.

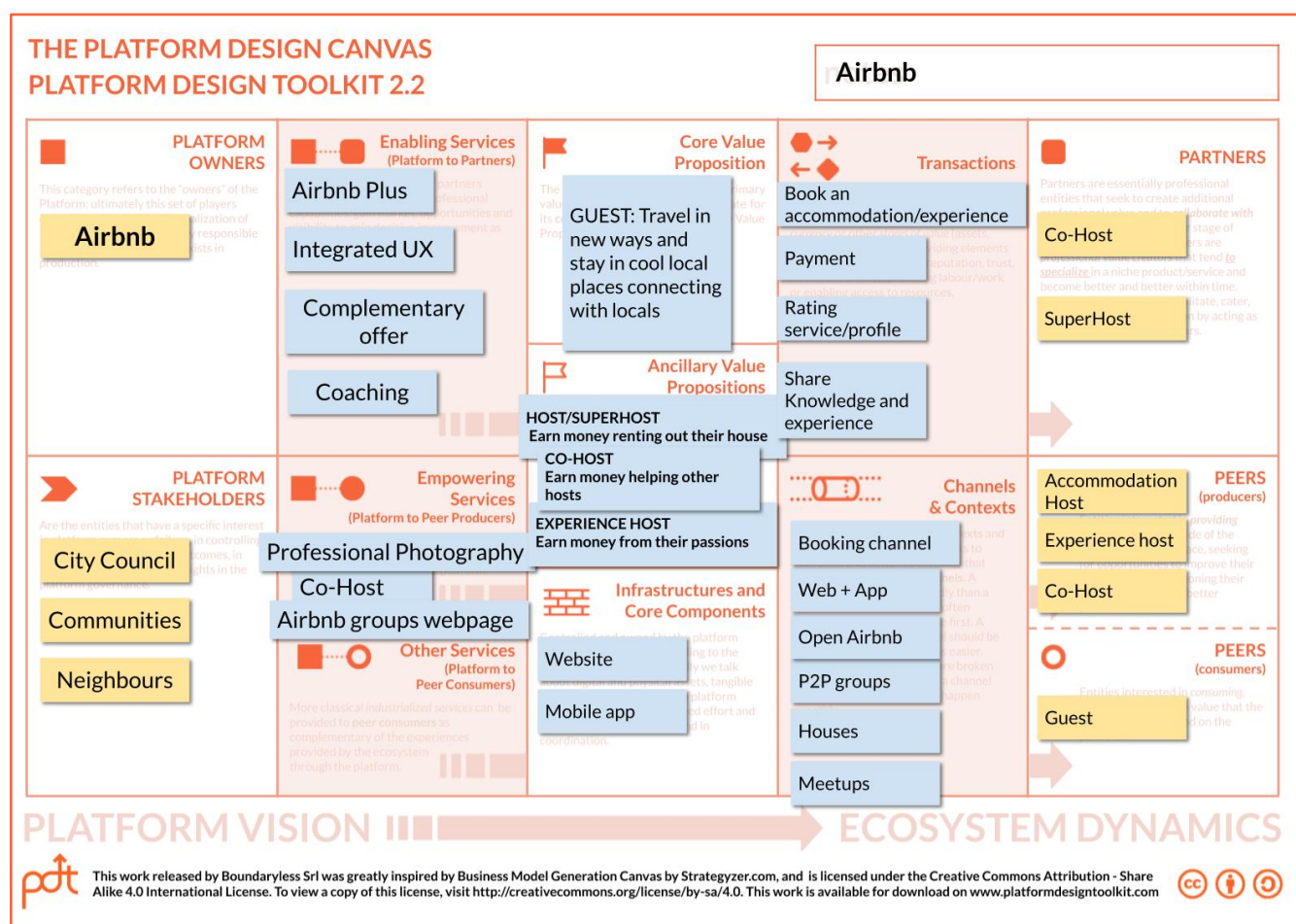
<http://bit.ly/PDT-UG-POT>

A Handy Dashboard: The Platform Design Canvas

Recently, we've been using the Platform Design Canvas in an increasingly limited set of cases, in any case less and less as a design tool. We noticed, on the other hand, that our community played with it mostly as either as a tool providing a quick way to recap the ecosystem potential and the platform strategy (some sort of "dashboard") or to quickly explore platform potential without diving into more complex processes.

The Platform Design Canvas can essentially be used as a dashboard:

- You can use the PDC to *step by step* consolidate the insights you generate by using the toolkit into the canvas itself (especially in the steps going from 1 (the Ecosystem Canvas) to 6 (the Learning Engine)).
- As an alternative, you can grab a PDC and quickly brainstorm (or map an existing platform strategy) in one single sheet.

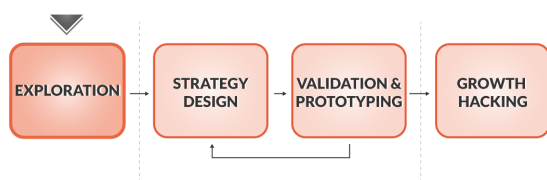


The example above covers an early version of Airbnb and is provided for illustrative purposes.

CLOSING NOTES

Please note that The Platform Design Toolkit 2.2 and its User Guide cover the whole Strategy Design part of the platform design process. Understanding and exploring a platformization opportunity - before actually diving into the design - is another essential step of the process.

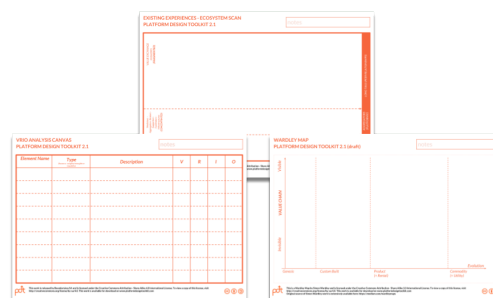
The Platform Opportunity Exploration Guide, accompanied by three additional canvases can hugely help strategists in the **Exploration Phase** and it is an essential addendum of the Platform Design Toolkit.



The Platform Opportunity Exploration Guide helps you map how an ecosystem already interacts, what platform opportunities might exist and what value chain strategic gameplay makes sense to adopt to transform the value chain and gain the aggregator role.

Explore Platform Opportunities before you jump into Platform Design!

It's made of three more Canvases and a dedicated User Guide



Platform Opportunity Exploration Guide

<http://bit.ly/POE-PDT>

Training Opportunities

Check out all our Training opportunities: <https://boundaryless.io/trainings/>

Thanks!

Thank you for reading this guide! We would love you even more if you

- register to the **Platform Design Newsletter** “*The Rules of the Platform Game*” here: <http://bit.ly/PDToolkit-NL>
- follow our **Medium Publication** “*Stories of Platform Design*” <http://bit.ly/PDToolkit-MEDIUM>
- visit our website at www.boundaryless.io
- get in touch with us at hello@boundaryless.io for more information on how to work together and our private advisory and training services

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