WOJTEK TOMASZEWSKI DESIGN STRATEGY 2023

This is a selection of work showing different stages of product or venture development. Please feel free to request additional details on the projects via email: hello@wojtektomaszewski.com

EXPERIENCE

EDUCATION

Yamaha Corporation Senior Industrial Designer May 2018 – Oct 2021 Hamamatsu, Japan

Design Consulting Product Design, Graphic Design, Visualisations Apr 2016 – May 2018 Warsaw & Cracow, Poland

Kolektyv Co-Founder & Designer Apr 2016 – Sep 2017 Warsaw, Poland

Tylko Industrial Designer Jan 2015 – Mar 2016 Warsaw, Poland

Pracownia Jasiewicz Product Designer Feb 2013 – Dec 2014 Warsaw, Poland Politecnico di Milano Strategic Design Master's Degree Nov 2021 – Feb 2023 (thesis) Milan, Italy

Academy of Fine Arts Product Design & Visual Communication Bachelor's Degree Oct 2010 – Jun 2014 Warsaw, Poland

Antwerp Management School Business Design Seminar Certificate ID → 2022

The Interaction Design Foundation

Psychology of Interaction Design Certificate ID \rightarrow 2021

User Research Certificate ID \rightarrow 2020

Human-Computer Interaction Certificate ID \rightarrow 2020

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YAMAHA NEW GENERATION OF YAMAHA'S BEST SELLING DIGITAL PIANOS

2019 - 2021

Responsibilities Research Industrial Design Creative Direction





INTRODUCTION

DESCRIPTION

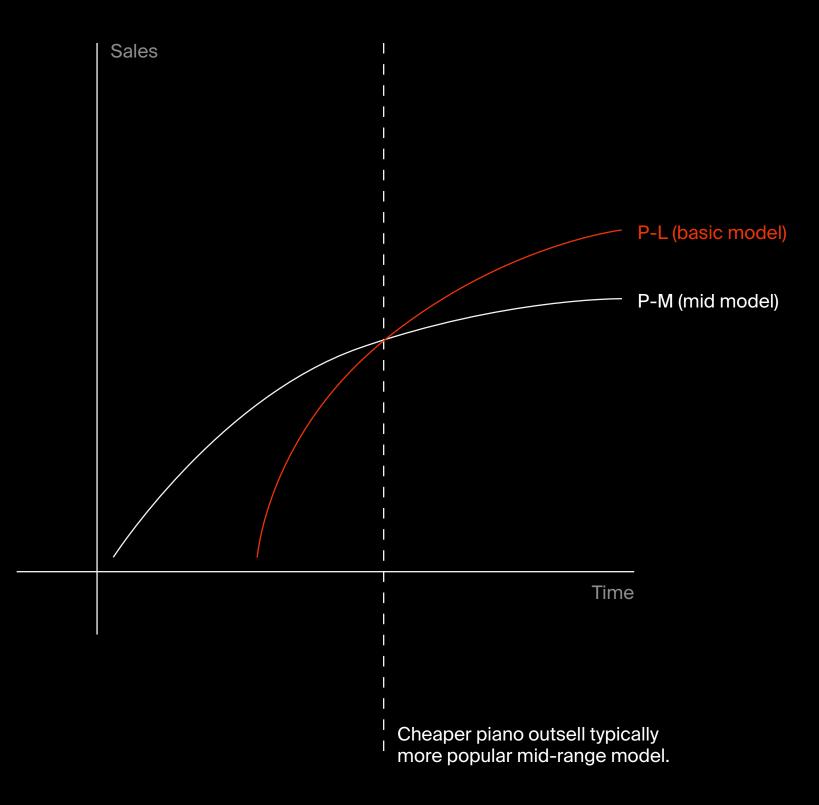
The current digital piano market is filled with strongly stylised and feature-packed products that don't reflect where they are used the most—our homes.

In response, Yamaha set to look out for a new design language for their best-selling digital piano line.

My role was focusing on facilitating design thinking in the team. Starting from strategy and working together during the development with the design leader role for the project.

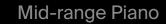
CHALLENGE

The current mid-range model wasn't selling like intended and needed a replacement due to the situation where the basic (P-L) model started cannibalising our more expensive version.



RESEARCH TARGET

Yamaha's main goal with the new project is to expand the user base towards more advanced musicians with the new P-M (mid-range) model and to catch more players at the beginning of their musical journey with the P-L, a basic piano version.



Goal 1 Expand user base with products dedicated to more advanced players.



Beginner Players

> Goal 2 Attract more young players, beginners to Yamaha.

> > Basic Piano

RESEARCH USER RESEARCH

We recruited six musicians with different levels of experience to join a combination of <u>Usability Testing</u>, <u>Shadowing</u> and <u>Interviews</u> to uncover their insights about Yamaha digital pianos and competitors' offerings.



RESEARCH INTERVIEW QUOTES

Affinity Mapping

We collected quotes and insights from the interviews and clustered them to have a clearer picture when <u>identifying opportunities</u>.

Design

I hate bells and whistles on keyboards, just want the basics and still have the highest quality.

I love that the options are limited. Eliminates the fuss and distractions that come with other keyboards.

I also much love the UI, it only has 3 buttons, 10 tones, a metronome, reverb and a 2 person mode.

Sound

The sound is accurate and clear. <u>Feels like</u> <u>a real piano</u>.

The sound is great and the volume gets pretty loud at least in my opinion.

<u>The built-in speakers were something</u> <u>I didn't know what I wanted</u> until I started looking. I thought I would be disappointed with the relatively low power of the amplifiers included in the P-125, but this thing sounds great in the room!

Арр

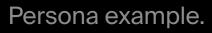
If you use it with the iOS app, (not available on Android) it becomes awesome.

I plug it into my computer, iPhone and iPad to expand the sound libraries. I absolutely love it.

One of my favourite features that are not necessarily part of the keyboard but is free to use is the <u>Yamaha Smart Pianist</u> app that you can put on your iPhone or iPad. Crazy good app and a lot of fun to record with.

SYNTHESIS PERSONAS







Quote

"Even if I don't practice enough, I would like to have a nice-looking furniture piece at home."

About

Mari is a project manager in tech. industry. She appreciates art and design. Recently she spontaneously decided to start piano lessons. Mari is busy so she bought her piano online after checking a few reviews before. She wanted good sound and an easy setup Another non-negotiable was good looks, she wanted a piano that matches her apartment.

Motivations

 → She likes classical music and wants to learn how to play the piano.

 \rightarrow Relax after work while doing her new hobby.

Core needs

→ Aesthetic instrument to match her apartment interior design.

→ Understandable user interface and easy to set up instrument.





RESEARCH TREND ANALYSIS



Soft tech.

With expanding IoT sector we can see more designs that try to blend into household environments. This aesthetic can be translated into bigger objects that traditionally were supposed to be the centre of a room.

Shift to online.

E-commerce, e-learning, digital services, etc. We looked at this aspect before the pandemic. And this shift was only accelerated by Covid-19 lockdowns.

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Digital scoreboards.

Musicians more often reach for iPads and other tablets to read notes. Some digital pianos can be connected to apps to enrich pianos' functionalities.

Example: https://forscore.co

Shrinking living space.

Globally, rising housing costs are driving people to live in a smaller apartments where every square meter counts. Smaller pianos are welcomed.



SYNTHESIS OPPORTUNITIES

Design

Simplified

Simple and honest design makes a product easy to use and more friendly. A product shouldn't be burdened with non-essentials.

Unobtrusive

A piano should have a neutral design to avoid taking over attention. A restrained design will make it a good fit for all environments.

User Experience

Clear Interface

Reorganise the interface for better usability and reduce the number of complicated operations.

or dedicated stand.

Smaller piano for smaller spaces

Shrink the piano footprint to make it easier to set up on a desk, table

Playability

New Piano Action

With new piano action, we have a great opportunity to further improve the authentic feeling of Yamaha's piano.

Textured Keys

Textured keys are a current recent trend in digital piano design and people seem to like it.

SYNTHESIS CONCEPT DEFINITION - KEYWORDS

SIMPLIFIED, AUTHENTIC, COSY, UNOBTRUSIVE, UNDERSTANDABLE, WELCOMING, PORTABLE, HOMELY FEELING, APPROACHABLE, REAL







SYNTHESIS CONCEPT PILLARS

DESIGN

Welcoming.

Like a real piano.

Intuitive functionality.

USER EXPERIENCE VALUES

Simple.

Easy to set-up.

Portable.

CORE VALUES

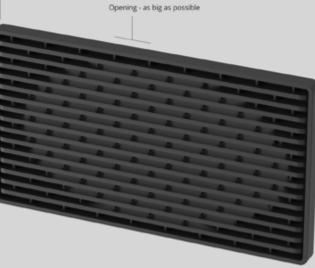
Inclusive. For all musicians regardless of their skill. *"Make Waves"*

Authentic. Conveing thrustworthiness of Yamaha brand.

S

aha

DESIGN IDEATION & DEVELOPMENT





















DESIGN CMF STRATEGY (COLOUR, MATERIAL, FINISH)

3x New

New design. New factory. New CMF strategy.

Both pianos are being produced in a new Yamaha factory and needed careful consideration and multiple samples to select the right colour combinations and texture finishing.





VALIDATION

Compared to the previous models, new pianos are significantly smaller. A smaller footprint means Yamaha can reduce the plastic needed for injection moulding and save on transportation costs in the long term by packing more pianos on the pallet.

30% smaller



Prototype testing and assesment

Due to pandemic restrictions, we had to improvise with testing so we sent prototypes to our stakeholders in different regions where they collected insights about the new model. The piano was well received by all parties involved and enthusiastically accepted by the top management at Yamaha headquarters.



THE OUTCOME

SUCCESSFUL DESIGN

NEW CMF* FOR THE WHOLE DIGITAL PIANO SEGMENT

Pianos were well received on the final Stakeholder presentation. A smaller footprint helps Yamaha save on material costs and transportation.

The team worked tiresly to refine colours, materials and finishes in the new model due to new production facility.





INTESA SANPAOLO BETTER FINANCIAL EDUCATION FOR YOUNG ITALIANS

2022 I 3 WEEKS WORKSHOP

Scope of work Venture Design Service-System Design Behavioural Research Market Research

INTESA non SANPAOLO



INTRODUCTION

BRIEF

How could the evolution of the Intesa Sanpaolo services create new service scenarios to make the provision of financial education available to customers and prospects more effective, engaging and integrated into the bank's ecosystem?

CORE VALUES

Prosperity

People who are financially aware and able to make better financial decisions are happier people. They are also better citizens because they can also contribute to the prosperity of the society in which they live.

Social Resposibility

Everyone is personally responsible for their financial education. But it is also the bank's social responsibility to educate customers and help them reach their life goals through better money management.

Relationship with the bank

Investing in financial education means supporting people in reaching their life goals and it means nurturing the relationship with banking institutions at every point of their journey.

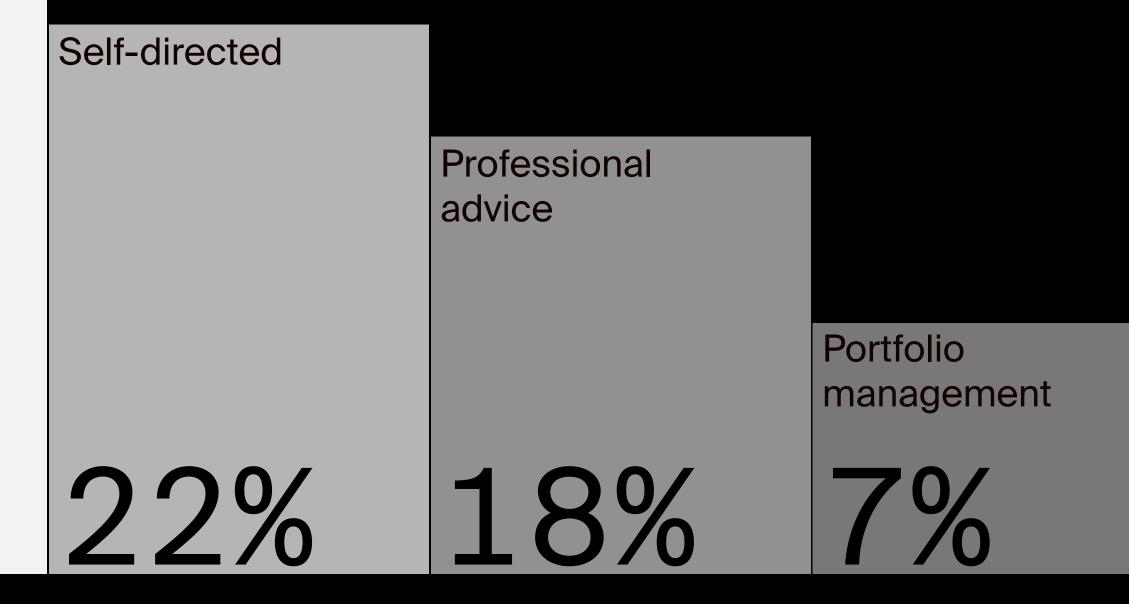
RESEARCH DATA RESEARCH

How Italians make their financial investment decisions?

Informal advice

53%

Source: Commissione Nazionale per le Società e la Borsa - CONSOB; 2017; 1000 respondents 18-74 years, primary family income earners.



RESEARCH INTERVIEW INSIGHTS

We conducted 12 interviews with young Italian adults mainly from the GenZ cohort and Millenials.

We can see an eagerness to take responsibility for the finances but the task seems complex and it's being postponed. We can also observe a lack of trust in banking institutions.



Selected Quotes:

"I want to do it right or not at all, that's why I postpone thinking about my finances."

Basem, 27



"I am afraid that all of this takes to much skills and knowledge and time that I just don't have."

Camila, 25



"I don't trust Italian Banks... what ever you give them you get less back."

Ricardo, 24



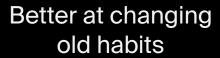
RESEARCH MINDSET



People with a fixed mindset will take more time to evaluate and have a more scientific approach. They can get into decision paralysis and postpone decisions indefinitely.

Risk averse

Both approaches can lead to procrastination and inability to start.



DECISION TAKING

Emotional, based on intuition. People with a growth mindset are faster to act but can prioritise fast wins over longterm compound gains.

SYNTHESIS CHALLENGES

MOTIVATION

Procrastination.

Instant reward vs. building with time.

What's the goal?

Hard to start.

Needs an effort and habit building.

"In Italy we don't talk about money."

COMPLEXITY

Lack of knowledge.

Don't know where to start.

Legal aspects.

TIME & EFFORT

Hard to do.

Other things are more important. (YOLO)

SYNTHESIS HOW MIGHT WE...?

How might we create a new touchpoint in the Intesa Sanpaolo ecosystem, that's close to our target demographic and helps them start their money management journey through life?

DEFINE **BUSINESS MODEL CANVAS**

Key Partners

- → Intesa Sanpaolo
- \rightarrow Intesa employees
- \rightarrow Bar/Café employees
- \rightarrow Coaches/Advisors
- \rightarrow Speakers
- \rightarrow Food and beverege suppliers
- \rightarrow Event organizers

Cost Structure

- \rightarrow Employee salaries
 - Bar management
 - Bar staff
 - Planning team
 - Financial advisors
- \rightarrow Rent
- \rightarrow Location + maintenace
- \rightarrow Cost for food & beverages
- \rightarrow Paid TED talks, speakers, events
- \rightarrow Marketing costs

+ on start

 \rightarrow Remodeling and furniture costs

Key Activities

 \rightarrow Events / speeches

 \rightarrow Talking about finance / giving

- advice
- \rightarrow Advisors for bank clients
- → Café
- \rightarrow Marketing

Key Resources

- \rightarrow Location (Intesa branches)
- \rightarrow Employees / advisors
- \rightarrow Money / capital
- \rightarrow Marketing
- \rightarrow Financial education resources

Value Propositions

- you can talk about money
- \rightarrow Provide Education
- \rightarrow Breaking the taboo

 \rightarrow Creating an open space where \rightarrow Workshops / masterclasses \rightarrow Education on personal finance in an easy / convenient way

Customer Relationships

 \rightarrow Build a relationship / community feeling \rightarrow Build trust, feeling of safe and open space \rightarrow Intesa customers have extra benefits

Channels

- → Through Intesa communication
- \rightarrow Education Plattform
- \rightarrow Social Media
 - LinkedIn campaigns
 - Instagram of the café
 - Social media channels of

Intesa

 \rightarrow YouTube videos of presentations and talks

 \rightarrow Influencer parnerships

Customer Segments

 \rightarrow People with some interest / intention to gain more knowledge and then start planning their finances

- → Intesa customer & noncustomers
- \rightarrow Young graduates
- → Students
- \rightarrow Remote workers
- \rightarrow Someone looking for a
- workspace
- → Café clients

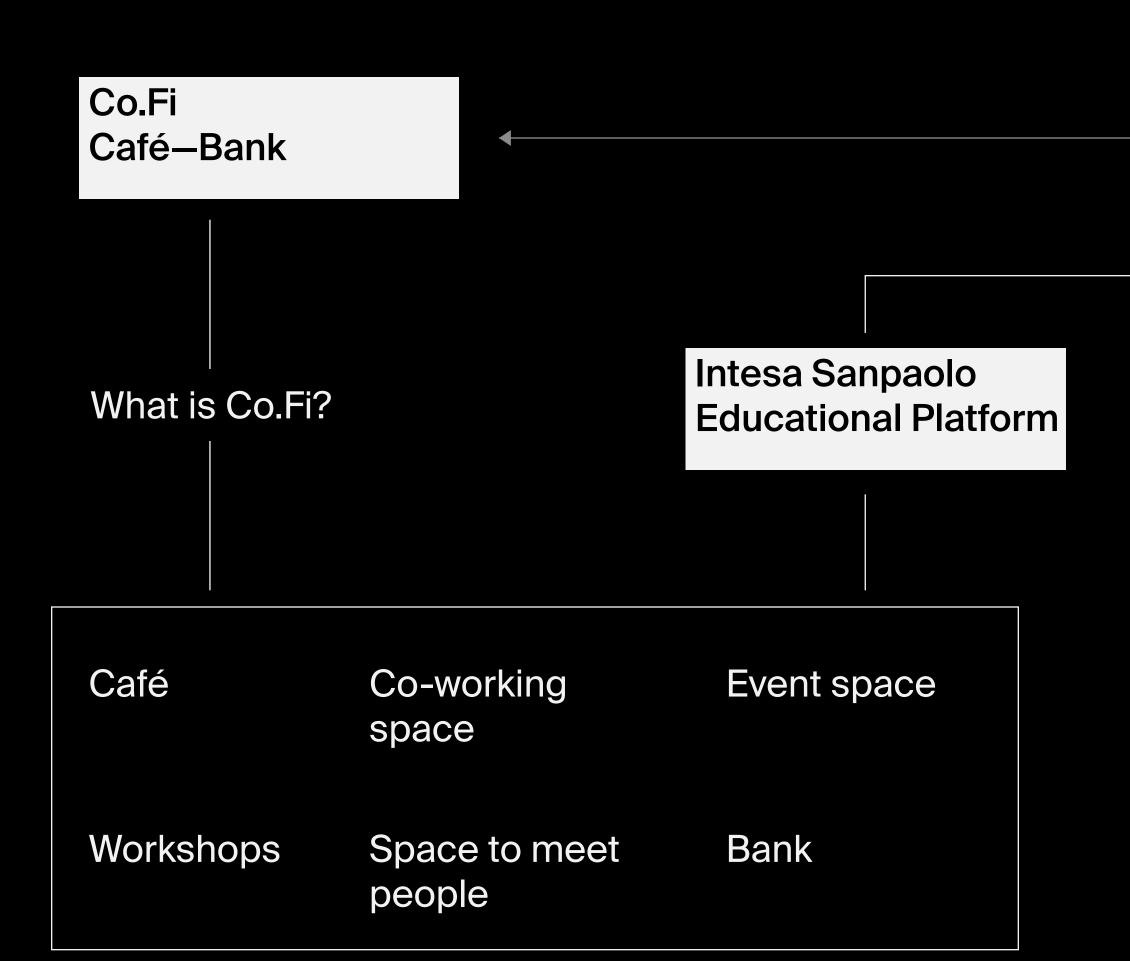
Revenue Streams

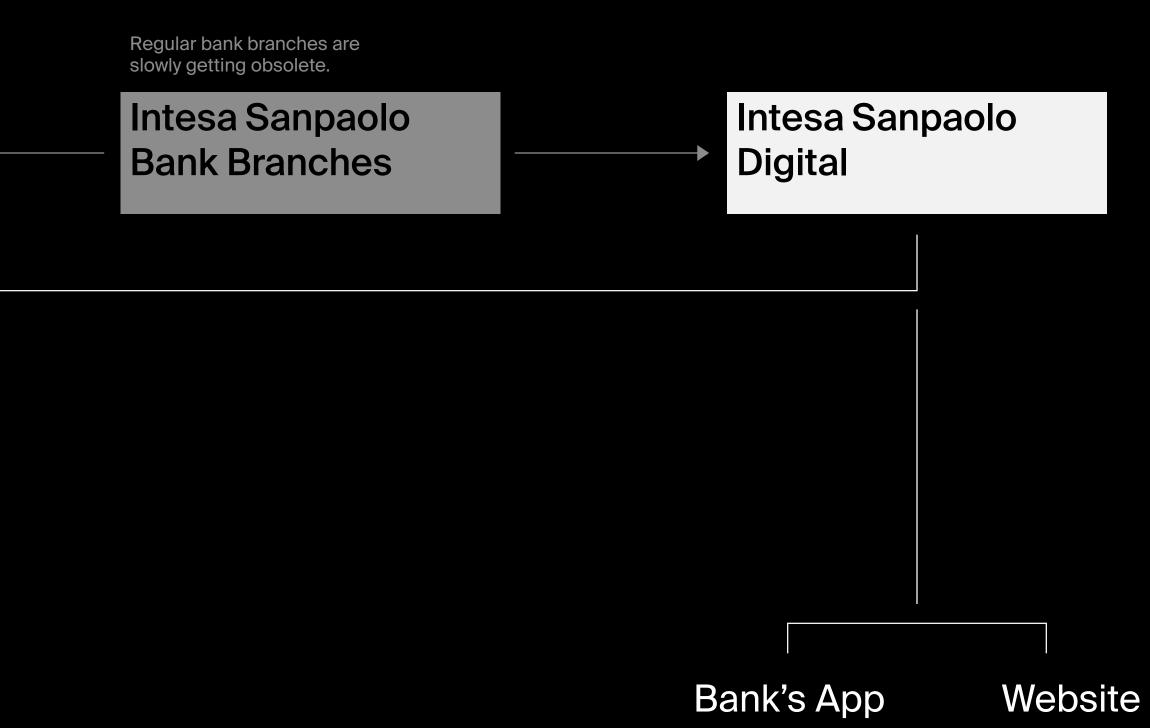
\rightarrow Income from café

 \rightarrow Indirect from more financial stable and savvy customers (interest on loans, fees for investments for bank)

- \rightarrow Paid content / events
- \rightarrow Renting space for events
- \rightarrow Subscription model for premium features (in app)

DEFINE SYSTEM MAP





CONCEPT TURNING BANK BRANCHES INTO SOCIAL HUBS

Co.Fi

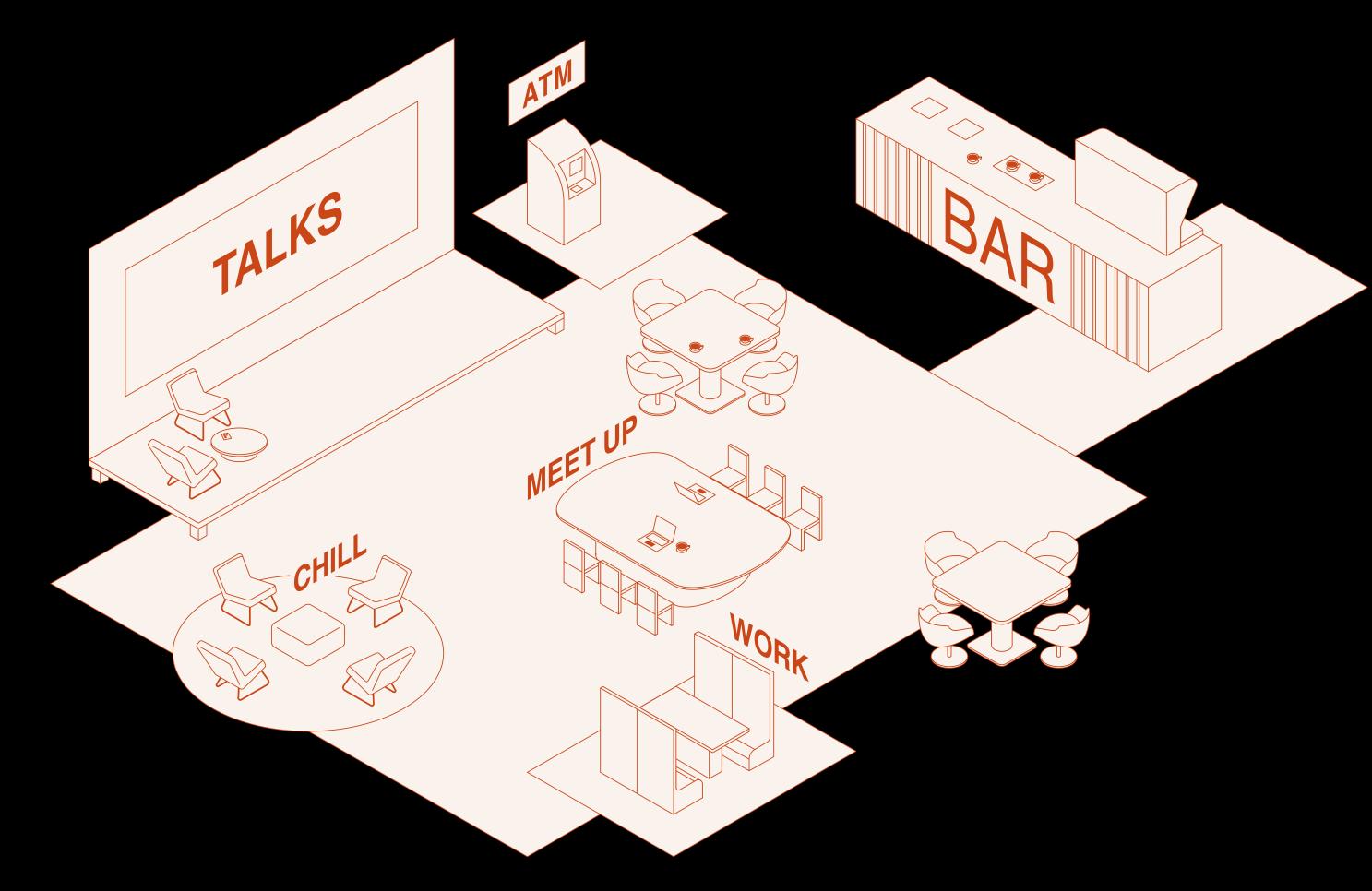
Co.Fi is a new take on the bank branch. An informal cafe, co-working tables and event space create a new type of place for people's self-improvement in many dimensions.

Educational Events

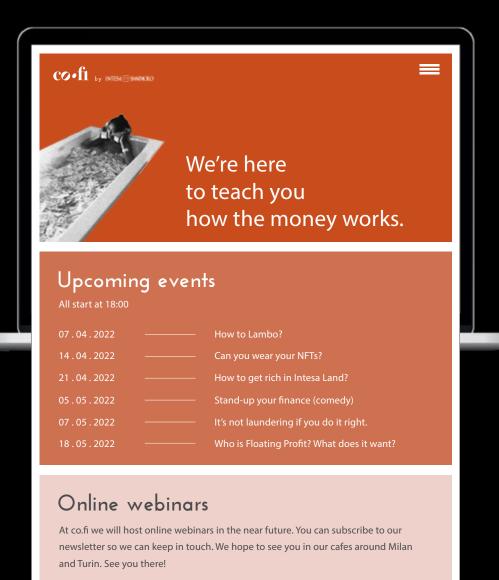
At Co.Fi clients can participate in events focused on financial education. Attendees can join panels, learn from experts and participate in workshops on themes ranging from crypto to commodity investing or real estate.

Masterclass

Co.Fi is part of a system where in-person hosted panels are recorded for online users. This online database is expanded by special Masterclasses where students can learn some more advanced topics than those covered in Co.Fi events.



CONCEPT MOCKUPS



to our newsletter to get notified about our event

name@email.com

A quick mockup of a digital touchpoint of Co.Fi space. It would be a website with recorded events and articles about money management and related subjects, delivered in an approchable way.

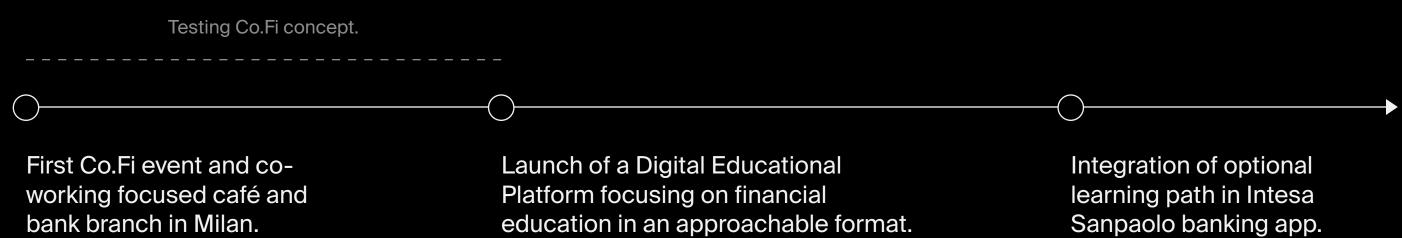
co•fi by intest∈snerolo

We're here to teach you how the money works.



co.fi by Intesa Sanpaolo is something completely new in Italy. It's a hotspot for everything finance.

VALIDATE ROADMAP



bank branch in Milan.

education in an approachable format.

The ultimate goal:

Forming good financial habits in the long term, so the Italian society will benefit from it the future.

YAMAHA SOUND FIELD CONTROLLER

2019 - 2020

Scope of work Research & Design Exploration Industrial Design UX Design Prototyping

CANAHA

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INTRODUCTION BRIEF

In Yamaha's Advanced Design R&D group I worked with software and mechanical engineers on an innovative interface to control sound in 3D space.

The biggest challenge for our team was to make Yamaha Active Field Control (AFC) technology easier to use. We aimed to create an intuitive interface and to bring the technology to more people.

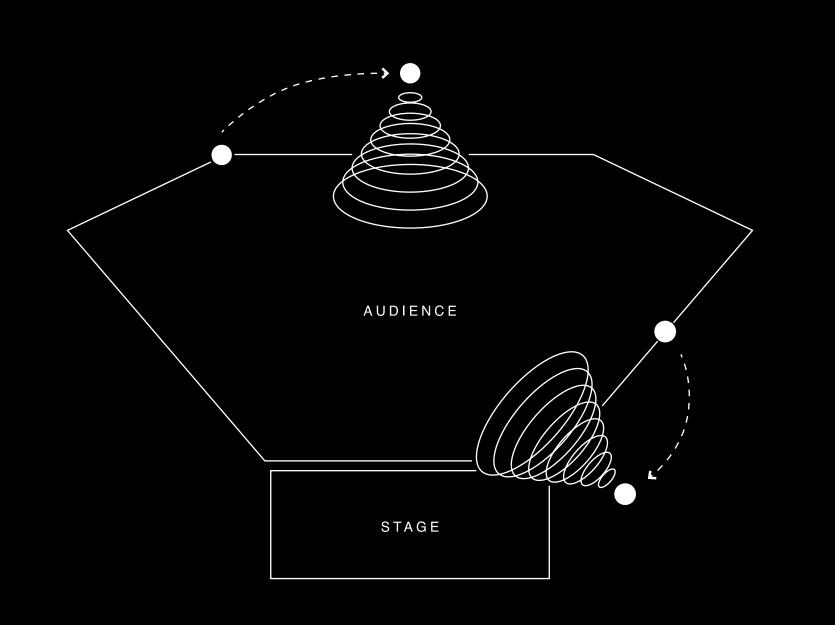


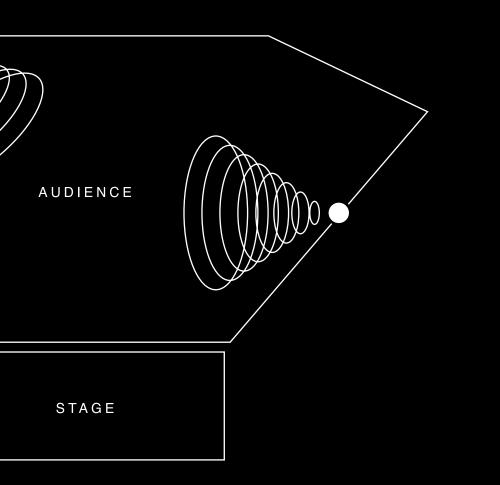
INTRODUCTION TECHNOLOGY

Immersive Sound System.

Active Field Control (AFC) Image is a Yamaha immersive system that allows users to control the perceived positions of acoustic images within a space.

AFC Image provides broad content creation support for theatre, opera, concert, installation, event and other applications.





Sound Source Positioning.

With a conventional stereo configuration, the acoustic image will vary according to the listener's position. Immersive systems, on the other hand, allow acoustic images to be placed wherever they are needed to produce the desired effect, and their position remains absolute regardless of listener location.

Sound Motion.

By precisely varying the output balance from the system's multiple speakers, sound can be moved to match programming and staging needs. Smoothly moving object-based audio in any place including the vertical, provides a level of freedom opening up new possibilities for content delivery and staging.

RESEARCH USERS



for DJs



Defining Target Group.

The team decided upfront who we are designing for. We settled on DJs, musicians, home studios and smaller venues to become our primary targets.

for music producers



for clubs

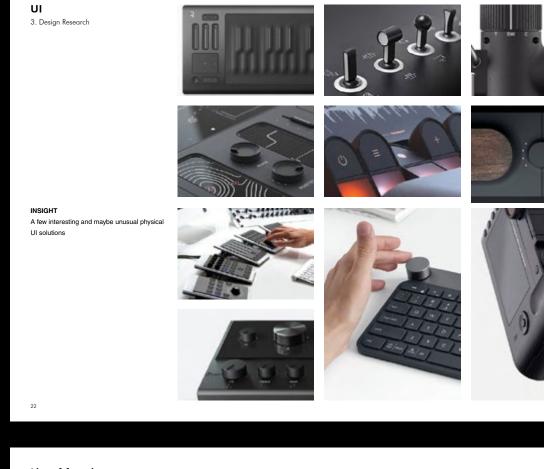
for performing artists





RESEARCH

USER JOURNEY TECHNOLOGY PERSONAS SETUPS



List of function 4. Interface & Functions assessment

interesting and worth trying out.

possible speculative user journey.

Proto-persona matrix chart is followed by

This hypothetical assessment let us imagine

scenarios and define keypoints for design.

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回回回回 WANNOW SOUND PATTERNS (PESHADE)



SAVATE CONTROLLETZ FOR EACAN CAMASHTEL

Basic functions for 3DJ

- Rotating sound in 3 axis (X, Y, Z) - Moving sound in 3 axis (X, Y, Z) - "Remodelling" sound space (resizing, turning, shrinking, expanding) - Controlling individual channels - Generating different sound environments by changing sound source position - Controlling the sound using pointing device (remote)



Has a dayjob

- Plays music in free time
- DJ in local club but not playing in main roooms
- Has a band or plays live acts
- Tries producing own music (bedroom produce

 Wants to stand out from other DJs/musicians Wants to perform better and hear music better Wants to be better at mastering and

manipulating sound for e.g. film scoring Wants to be better, more versatile musician

Wants to make the performance more unique

for the audience

PROBLEMS

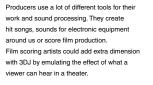
GOALS

Research Direction.

To better understand the task I looked at how potential users would use our design. Researched current DJ products and midi controllers which are a good reference for the project.



Sound Designers & Producers







Other controllers 3. Design Research

DISCOVERY

Decision is based on features, aesthetics, reviews and how useful can it be for an individual.



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First time has to be an eniovable.

LEARNING / PRACTICE

Easy learn

Opportunity to make the experience unique.

Software and hardware installation and first steps should be as simple as possible.

INSTALLATION

Sound experimentation. More options = more interesti

PLAY / PERFORM / RECORD

Make or Break Moment

SESESE AREA

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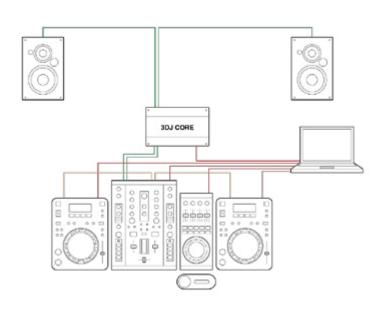
Legend O Key Moment

Easy assembly and smooth soundcheck will result in less anxiety and stress for the musician and better performance

INSIGHT Video editing consoles are interesting since they use trackballs for colour calibration. Trackball has additional ring around that could act as a 3rd axis in our design.

Interface setup

6. Hardware interface architecture



DJ products - Summary 3. Design Research







INSIGHT DJs standard is mixer with turntables or CDJs. Usually this equipement is installed in clubs permanently. Mobile DJs are turning to all-inone rigs with digital decks and mixer thanks to their portability. Some DJs use special effector hardware such as Pioneer RMX-1000, effector is usually mounted above the mixer. Some DJs use pads or lunchpads for additional effects.

All of those products share similar DNA hence DJs are familiar with their apperance and controls.





Overview

4. Interface & Functions assessme







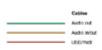
DJ products are quite complex but they share similar types of controls such as knobs, faders, switches, pads and buttons. Even if they serve different purpose these interfaces are easy to learn due to their similar appearance and common basic functionality.

Our challange is to teach artists how to work with sound in 3-dimensional space by using new controller - trackball.

Digital DJ setup

outer throug CDJs and mixer, all devices has to be connected to the computer which controls DJ and 3DJ software.

INSIGH Too many USB connections.









UX DESIGN A NEW TYPE OF INTERFACE

We designed a <u>completely new device</u> to control sound in three dimensions. Until now this technology was reserved to sound engineers only using professional-grade sophisticated tools like Yamaha Rivage stage mixers.

We shrunk down the product to a <u>compact</u> package equipping it with customisable buttons that can be programmed via DAW or DJ software. We created the product to resemble some of the other midi devices artists are already using to lower the entry bar.

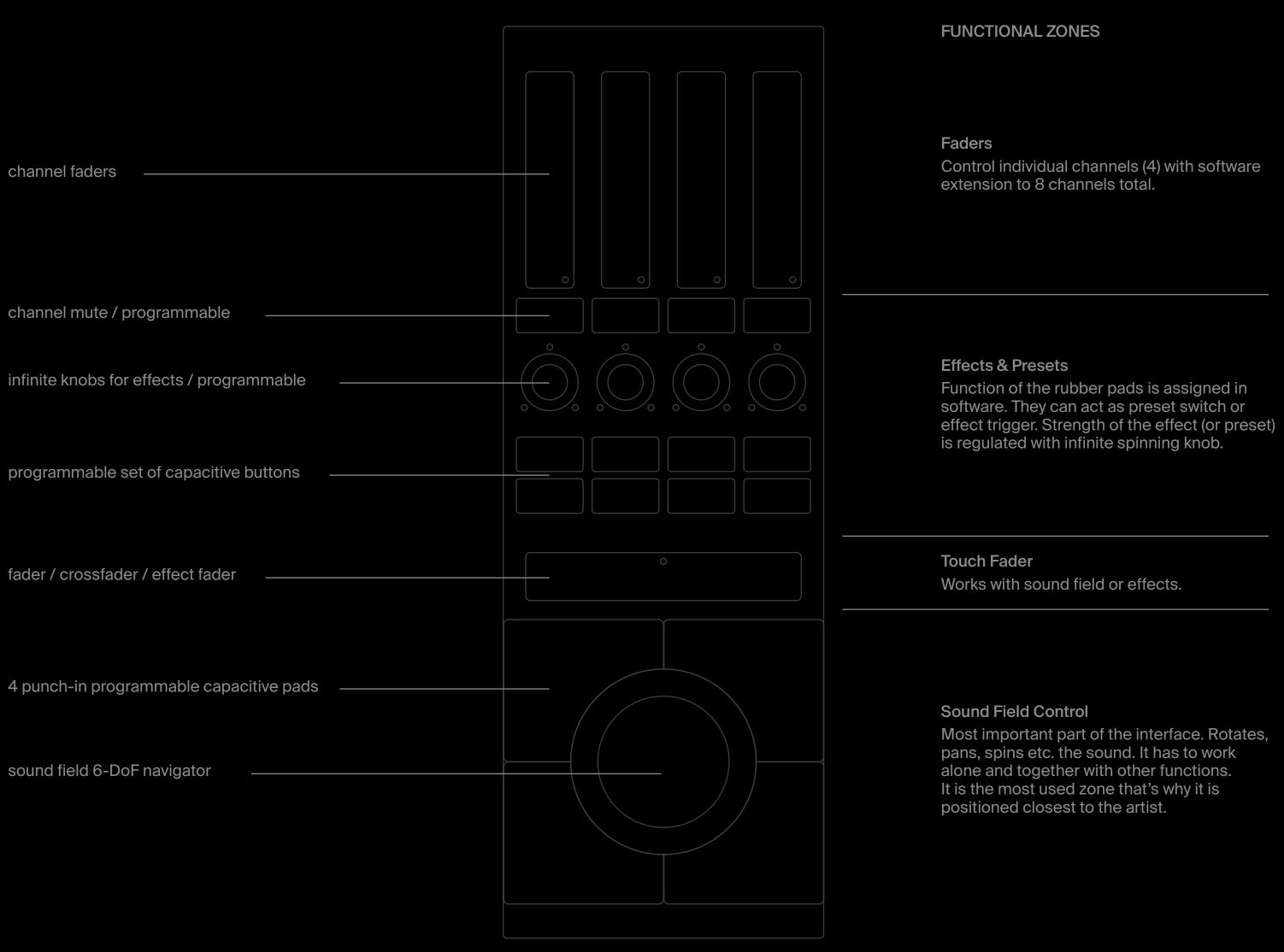
channel faders _

channel mute / programmable

infinite knobs for effects / programmable

fader / crossfader / effect fader

sound field 6-DoF navigator



PROTOTYPES

We built fully functioning prototypes and tested them inside the company with Yamaha musicians. Sound Field Controller can be paired with flat midi devices or adjusted to the same height as mixers with a special stand.









THE OUTCOME

PROOF OF CONCEPT

PATENTED USER INTERFACE DESIGN

Our team has proven that active sound field technology can be shrunk to a smaller device and used in a new environment enabling artists with a new tool to express their vision.

The design of our patented UI enables quick adjustments without pre-programming the spectacle. Artists or engineers can manipulate sound space in real time with a 5-axis knob.



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THANK YOU DZIĘKUJĘ ありがとう GRAZIE MERCI

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