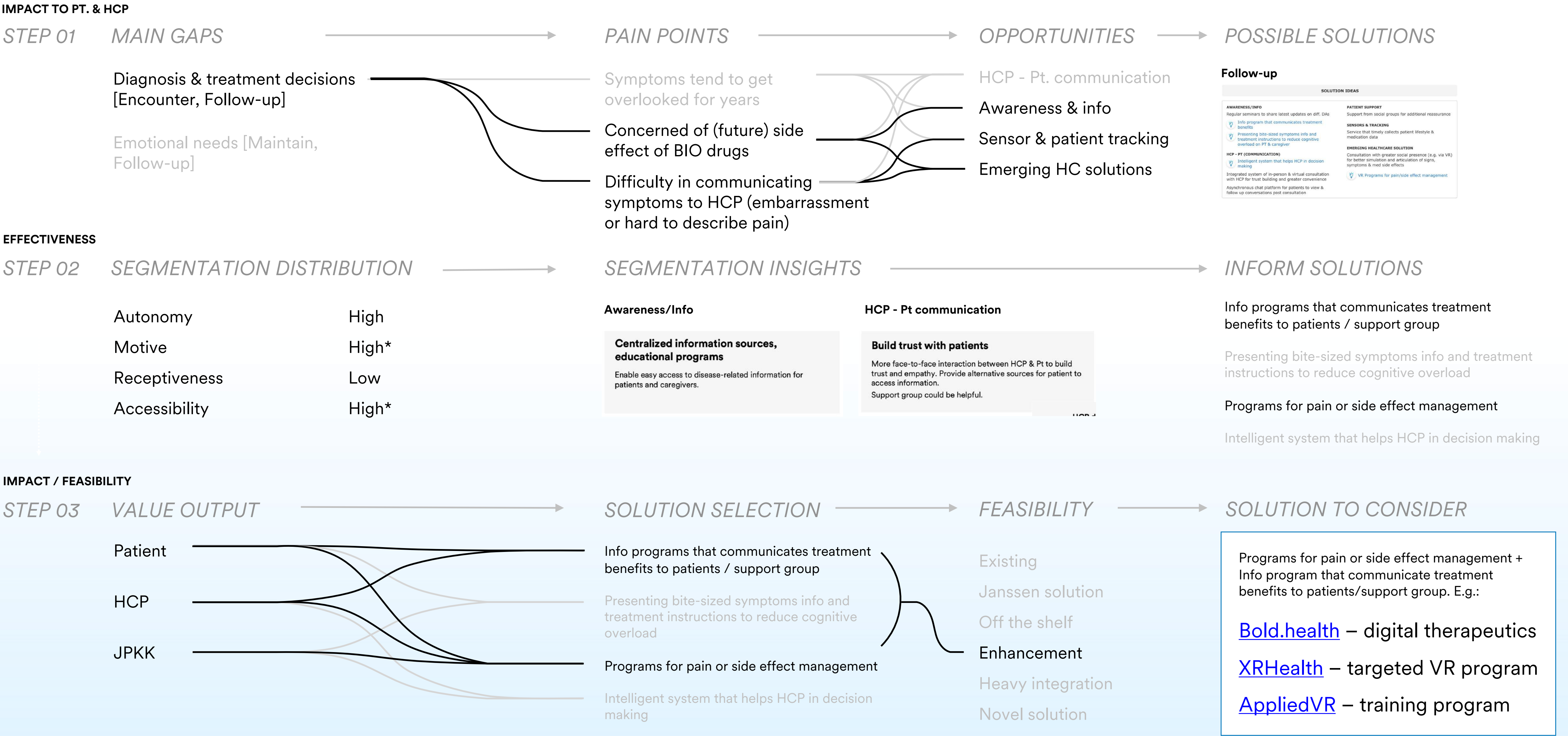


Example | Use the 3-step framework to inform a TA specific initiative



IMPACT / FEASIBILITY

STEP 03

VALUE OUTPUT

Patient

HCP

JPKK

SOLUTION SELECTION

Info programs that communicates treatment benefits to patients / support group

Presenting bite-sized symptoms info and treatment instructions to reduce cognitive overload

Programs for pain or side effect management

Intelligent system that helps HCP in decision making

FEASIBILITY

Existing

Janssen solution

Off the shelf

Enhancement

Heavy integration

Novel solution

SOLUTION TO CONSIDER

Programs for pain or side effect management + Info program that communicate treatment benefits to patients/support group. E.g.:

Bold.health – digital therapeutics

XRHealth – targeted VR program

AppliedVR – training program

Example | Step 01: Define the problem space

STEP 01 MAIN GAPS



Diagnosis & treatment decisions
[Encounter, Follow-up]

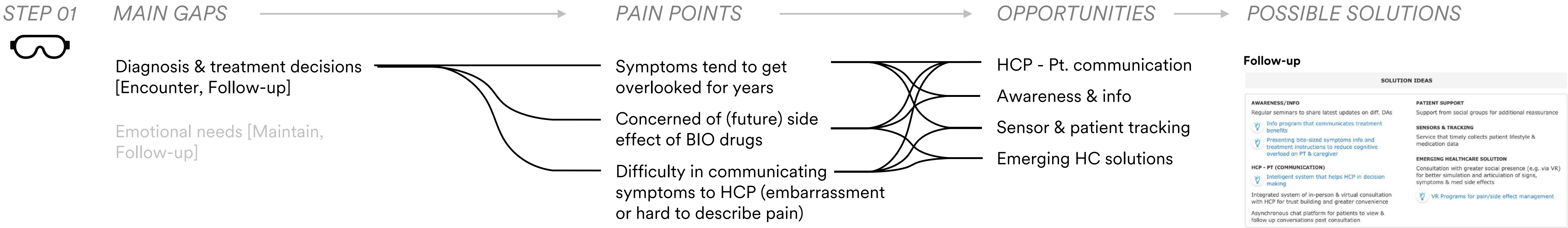
Emotional needs [Maintain,
Follow-up]



Map out the TA-specific patient journey (key events, emotion & mindset) and **identify the main gaps**. The first layer of decision making is choosing the best problem (gap that brings about the most opportunities) to solve.

Immunology example: Diagnosis & treatment decision [Encounter, Follow-up] affects both patient & HCP. Hence gives the business team more opportunities to ideate for impactful solutions.

Example | Step 01 (cont.): List out pain points & opportunities



Map out the TA-specific patient journey (key events, emotion & mindset) and **identify the main gaps**. The first layer of decision making is choosing the best problem (gap that brings about the most opportunities) to solve.

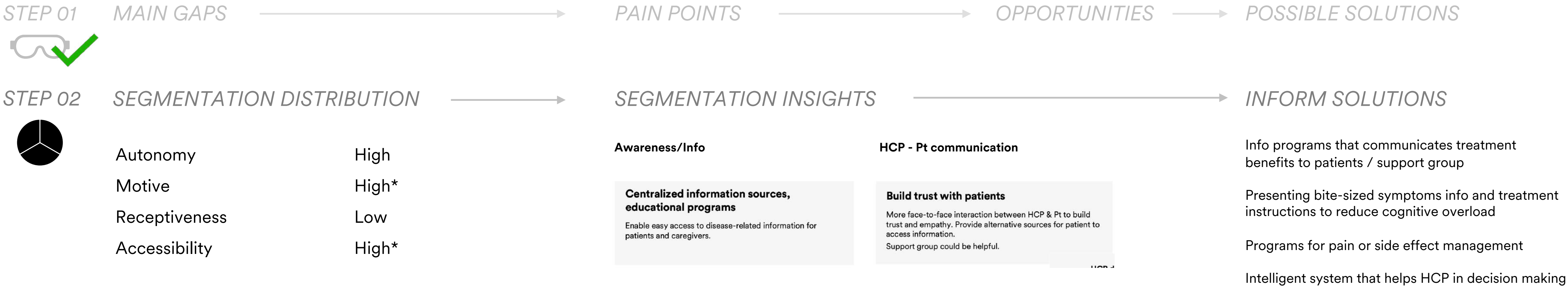
Immunology example: Diagnosis & treatment decision [Encounter, Follow-up] affects both patient & HCP. Hence gives the business team more opportunities to ideate for impactful solutions.

In the chosen gap (Immunology e.g.: Diagnosis & treatment decision), list down the **pain points** in detail and identify **possible opportunity areas**. You may refer to the [PT journey map] or [Gaps/Opportunity summary] for more details.

There are some high-level solutions in the journey map. You **may ideate for more detailed solutions**. Don't worry if it's messy at first, you'll start to see patterns, then map the solutions out under the opportunity areas.

This little divergence activity gives us more room for choice and consideration.

Example | Step 02: Use segmentation to further inform solutions



Map out the TA-specific patient journey (key events, emotion & mindset) and identify the main gaps. The first layer of decision making is choosing the best problem (gap that brings about the most opportunities) to solve.

Immunology example: Diagnosis & treatment decision [Encounter, Follow-up] affects both patient & HCP. Hence gives the business team more opportunities to ideate for impactful solutions.

In the chosen gap (Immunology e.g.: Diagnosis & treatment decision), list down the pain points in detail and identify possible opportunity areas. You may refer to the [PT journey map] or [Gaps/Opportunity summary] for more details.

There are some high-level solutions in the journey map. You may ideate for more detailed solutions. Don't worry if it's messy at first, you'll start to see patterns, then map the solutions out under the opportunity areas.

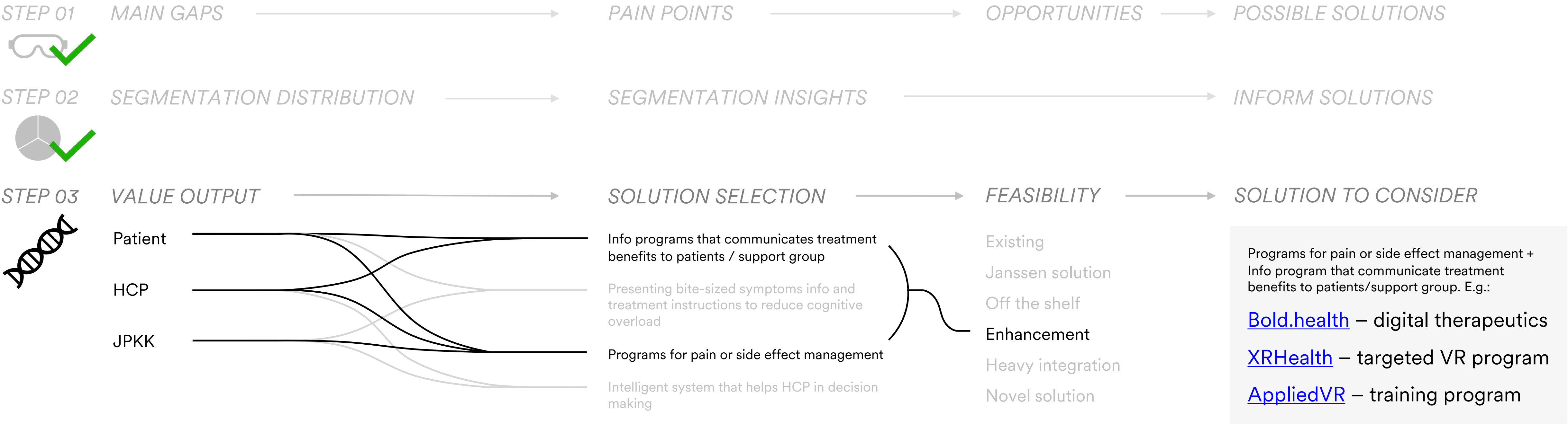
This little divergence activity gives us more room for choice and consideration.

Now, let's bring **patient segmentation** into the picture, it enables business teams to be precise in helping patients with specific needs & goals, and prepare more efficient solutions.

What are the main segmentation distribution for this TA and problem space? Use **data** to drive your decisions here. Refer to [page 25](#) for insights on segmentation.

Use segmentation insights to filter the solutions and make them more specific. For example, an "Info program" that targets both the patient and support group might be helpful, especially when receptiveness is low.

Example | Step 03: Prioritize solutions by value output & feasibility



Map out the TA-specific patient journey (key events, emotion & mindset) and identify the main gaps. The first layer of decision making is choosing the best problem (gap that brings about the most opportunities) to solve.

Immunology example: Diagnosis & treatment decision [Encounter, Follow-up] affects both patient & HCP. Hence gives the business team more opportunities to ideate for impactful solutions.

In the chosen gap (Immunology e.g.: Diagnosis & treatment decision), list down the pain points in detail and identify possible opportunity areas. You may refer to the [Patient journey map] or [Gaps/Opportunity summary] for more details.

There are some high-level solutions in the journey map. You may ideate for more detailed solutions. Don't worry if it's messy at first, you'll start to see patterns, then map the solutions out under the opportunity areas.

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Now, let's bring patient segmentation into the picture, it enables business teams to be precise in helping patients with specific needs & goals, and prepare more efficient solutions.

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Use segmentation insights to filter the solutions and make them more specific. For example, an "Info program" that targets both the patient and support group might be helpful, especially when receptiveness is low.

Finally, **evaluate & shortlist** the list of solution based on their value output and feasibility. For example, does the solution give us RWD/RWE? (refer to rubric on page_ for full list of success criteria)

Once the evaluation is done, you may further filter based on **feasibility considerations** – has this been done by Janssen? Does it exist in the market? Is it a simple tactic improvement or does it require group-up development as a novel solution?

Filling the blueprint | What is the shortlisted solution

DEFINE

Therapeutic area

Immunology

Medical condition

IBD/UC, RA

Usage context

-

Pain points

Concerned of (future) side effect of BIO drugs
Difficulty in communicating symptoms to HCP (embarrassment or hard to describe pain)

Opportunities

Awareness & info
HCP – Pt communications
Emerging HC solutions

Patient segment

Autonomy

High

Motive

High

Receptiveness

Low

Accessibility

High

Main gap

Diagnosis & treatment decisions

Solution

Programs for pain or side effect management + Info program that communicate treatment benefits to patients/support group.

Implementation

Janssen solution + enhancement

Program with pain management feature, informational and structured content

Scale

Patients facing
Cross-TA (e.g.: in oncology or PH)
Country-specific (language & culture)

Functional process

- HCP introduce the software to patient during consultation
- HCP walk patient through the set up process
- System record patient information (including symptoms) prior to the program
- Patient participate in the program
- Patient receives regular reminder
- Program collects mini datapoints from patient during the intervention
- Solution collects & consolidate the data towards the end of intervention period
- HCP receive insight report based on the data
- HCP re-evaluate patient status and suggest relevant treatment options to patient

Other solution in the ecosystem

Intelligent system that helps HCP in decision making

Virtual HCP – Pt. communication feature

SPECIFICATIONS

Technology

-

Sensor type

-

Connectivity

-

Device / Model

-

Areas of interest

-

RWD

-
-
-

Measurement process

-

Outcome measures

-

Evidence

MAF

R&D

CE

MSL

Deployment operations

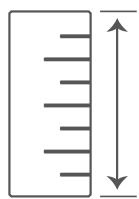
Action item

Resource requirements

-

Compile PT-centric data-oriented blueprint

Example | Specify the data evidence & solution development protocol



Clinical Measures

What do you want to measure and why

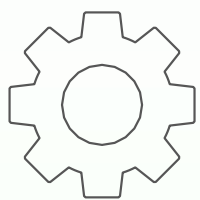
Identify choice of measure, outcome and data endpoints



Enabling Technologies

What are the right tools for the job

Find the right-fit technology while ensuring safety and efficacy



Deployment Operations

What's needed to deploy remotely and at scale

Define the Jobs-to-be-done during deployment (e.g.: purchase, distribution, monitor, analysis etc)

Example

“RA/UC patients are anxious towards BIO treatment, and have trouble describing symptoms to their HCP; hence it would be helpful to measure their level of treatment literacy and track their symptoms”

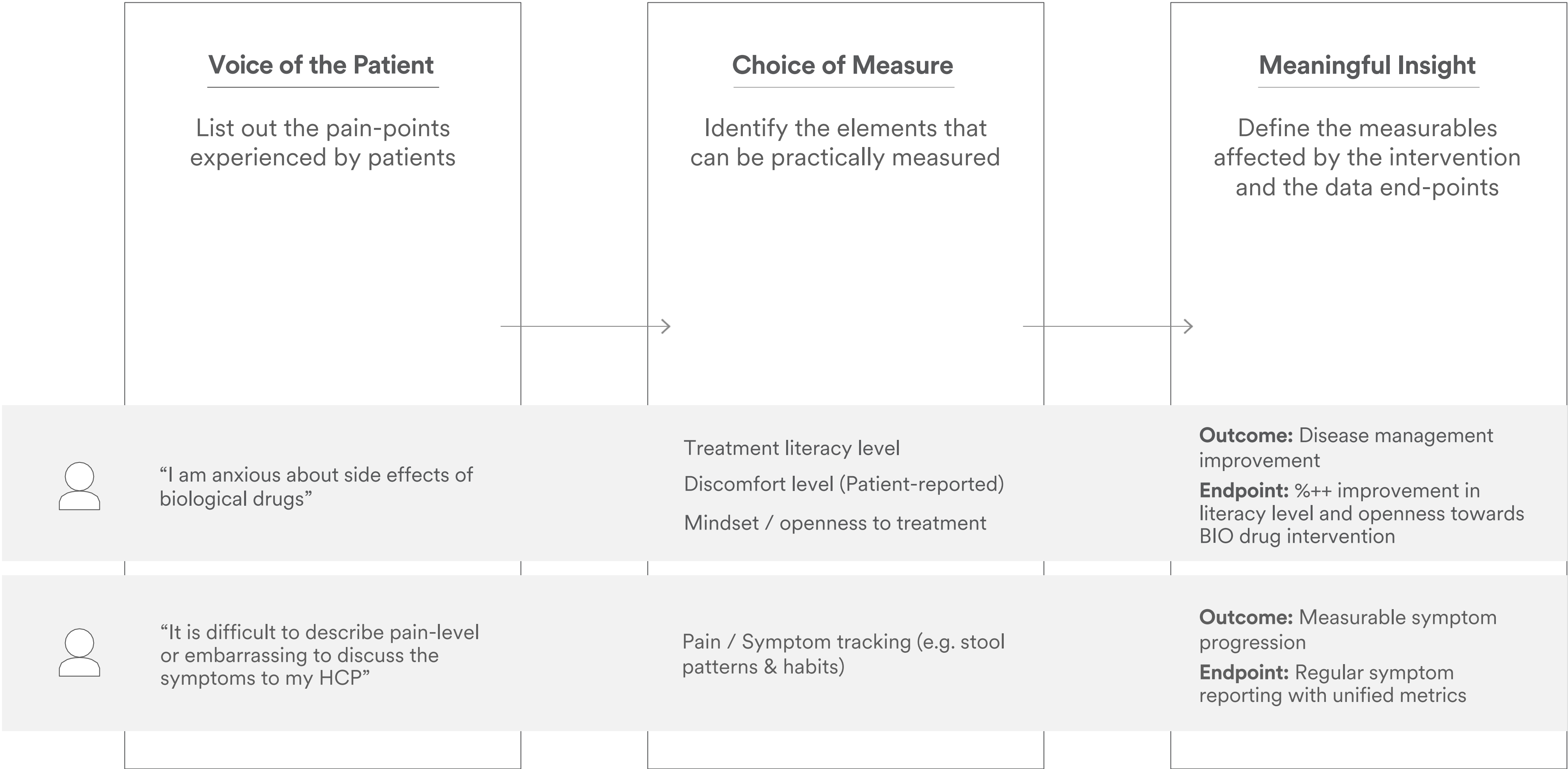
“Develop a software application solution on mobile phone, iPad, or even consider using a VR solution”

“Establish a contract with local vendor;
Run a small range test with 100 patients across a few partnering clinics”

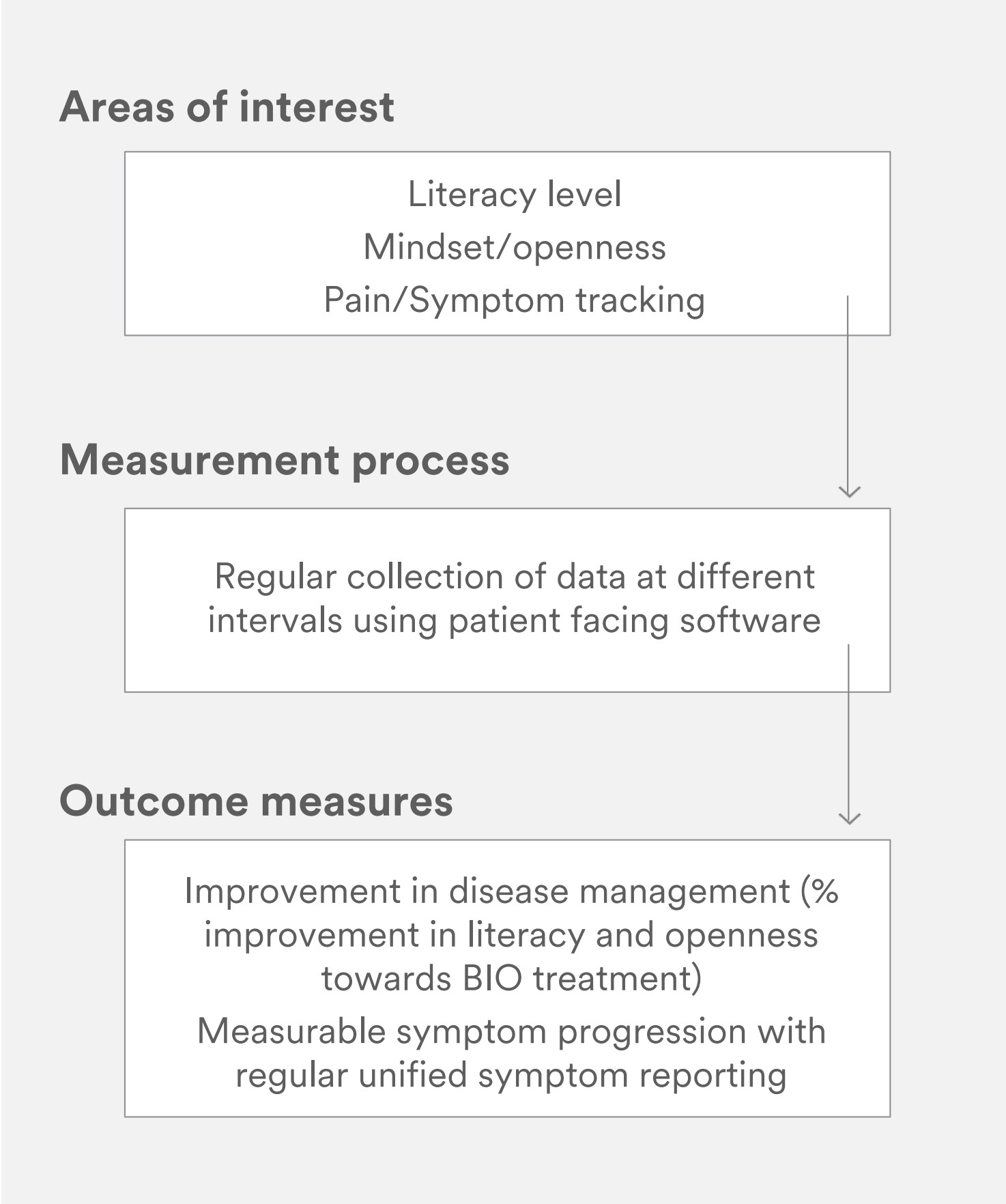
Develop clinical measures that matter to patient



CONTEXT EXAMPLE

Immunology (IBD/UC, RA)
Diagnosis & treatment
decisions [Follow-up]



Finding the right-fit enabling technology for the purpose



Therapeutic area	Immunology	Sensor type	Patient reported data
Medical condition	IBD/UC, RA	Connectivity	4G/5G, WiFi
Technology	Software application	Device/model	
Usage context	Daily or regular reporting Patient active usage & inputs		

Filling the blueprint | How to obtain the data & evidence

DEFINE				SPECIFICATIONS			
Therapeutic area	Medical condition	Usage context		Technology	Sensor type	Connectivity	Device / Model
Immunology	IBD/UC, RA	Daily or regular reporting; Patient active usage & inputs		Software application	Patient reported data	4G/5G, WiFi	Mobile app VR program
Pain points		Opportunities	Patient segment	Areas of interest		RWD	
Concerned of (future) side effect of BIO drugs Difficulty in communicating symptoms to HCP (embarrassment or hard to describe pain)		Awareness & info HCP – Pt communications Emerging HC solutions	Autonomy High Motive High Receptiveness Low Accessibility High	Literacy level Mindset/openness Pain/symptom tracking		Pain/discomfort level Frequency of occurrence Change of condition Proactiveness Persuasiveness Duration & frequency of visits Ease of treatment decision Availability of support HCP related preference Solution rating Usage pattern (level of engagement, frequency etc) App analytics	
Main gap	Diagnosis & treatment decisions			Measurement process		Evidence	
Solution	Programs for pain or side effect management + Info program that communicate treatment benefits to patients/support group.			Regular collection of data at different time intervals using patient facing software		MAF Intervention effectiveness on patient segment, level of engagement R&D CE BIO medication uptake MSL Recommendation to HCP	
Implementation		Scale		Outcome measures		Resource requirements	
Janssen solution + enhancement Program with pain management feature, informational and structured content		Patients facing Cross-TA (e.g.: in oncology or PH) Country-specific (language & culture)		Improvement in disease management (% improvement in literacy and openness towards BIO treatment) Measurable symptom progression with regular unified symptom reporting		Treatment effectiveness, adherence, intervention result on patient segments Medication uptake or conversion to LAI Recommendation to HCP	
Functional process		Other solution in the ecosystem		Deployment operations		Compile PT-centric data-oriented	
HCP introduce the software to patient during consultation HCP walk patient through the set up process System record patient information (including symptoms) prior to the program Patient participate in the program Patient receives regular reminder Program collects mini datapoints from patient during the intervention Solution collects & consolidate the data towards the end of intervention period HCP receive insight report based on the data HCP re-evaluate patient status and suggest relevant treatment options to patient		Intelligent system that helps HCP in decision making Virtual HCP – Pt. communication feature		Establish local vendor Contact local clinics & set up pilot plan Fulfil internal regulatory requirements Recruit patient & consent management Conduct pilot test & regular check-ins			

Filling the blueprint | The complete blueprint example

Immunology
IBD/UC + RA

DEFINE				SPECIFICATIONS			
Therapeutic area	Medical condition	Usage context		Technology	Sensor type	Connectivity	Device / Model
Immunology	IBD/UC, RA	Daily or regular reporting; Patient active usage & inputs		Software application	Patient reported data	4G/5G, WiFi	Mobile app VR program
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Main gap			Diagnosis & treatment decisions	Measurement process		Evidence	
Solution			Programs for pain or side effect management + Info program that communicate treatment benefits to patients/support group.	Outcome measures		MAF R&D CE MSL	
Implementation			Scale	Deployment operations		Resource requirements	
Janssen solution + enhancement Program with pain management feature, informational and structured content			Patients facing Cross-TA (e.g.: in oncology or PH) Country-specific (language & culture)	Establish local vendor Contact local clinics & set up pilot plan Fulfil internal regulatory requirements Recruit patient & consent management Conduct pilot test & regular check-ins		Treatment effectiveness, adherence, intervention result on patient segments Medication uptake or conversion to LAI Recommendation to HCP	
Functional process			Other solution in the ecosystem				
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This example is speculative and done without direct reach to TA leads – this should be defined by key stakeholders and key users in the initiative

Compile PT-centric data-oriented