



 **NEW PRODUCT  
PLANNING**  
Summit

# TPP Development & Indication Prioritization

Erik Holzinger groupH

October 2023



‘How wonderful that we  
have met with a paradox.  
Now we have some hope  
of making progress.’

Nils Bohr, Danish Physicist  
1885 - 1962

# Indication Prioritization & TPP Development



1

Why Am I Talking to You?

2

... an Indication  
Prioritisation Case Study

3

... a TPP Development  
Case Study

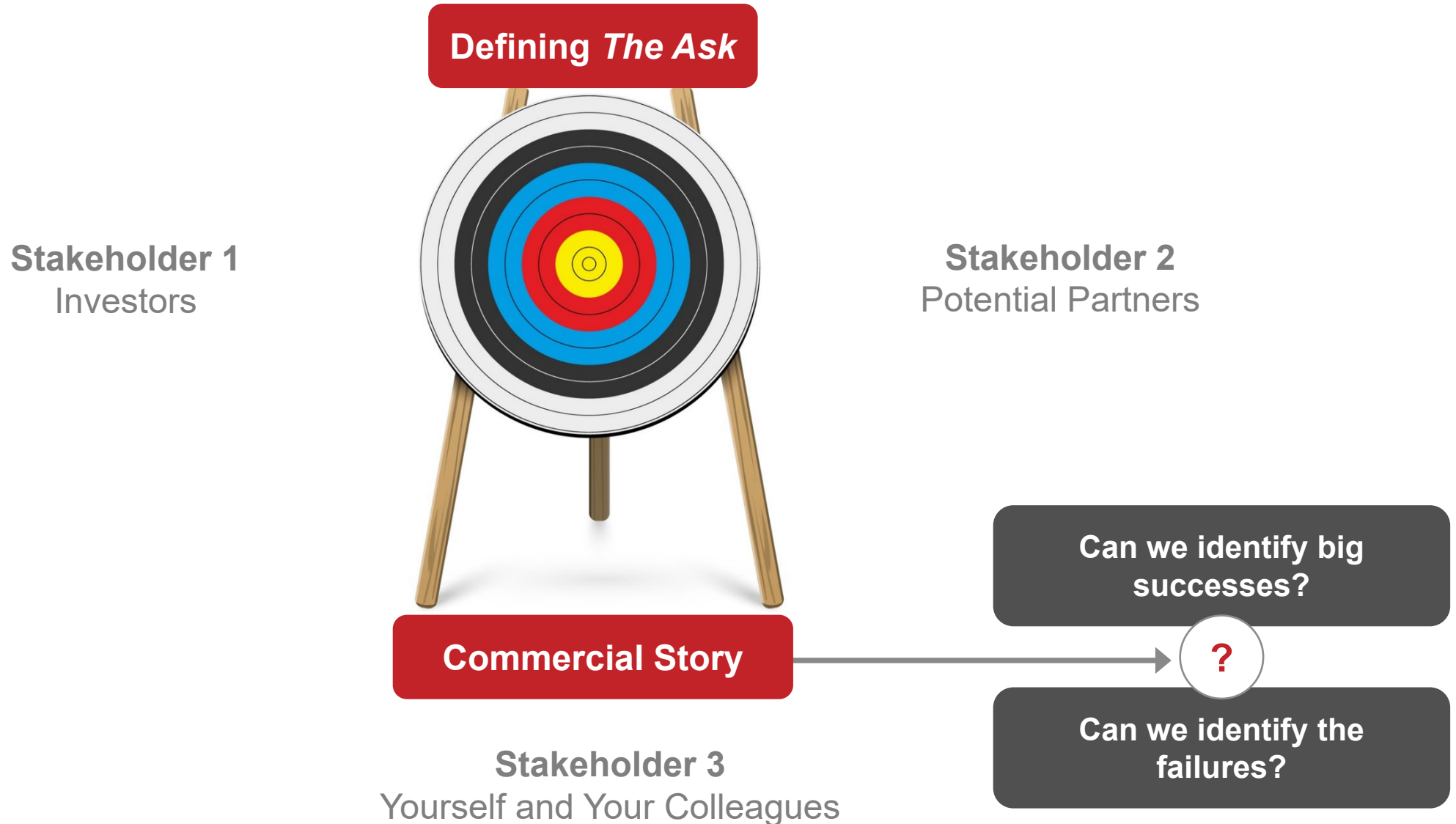
4

Hints & Tips

5

Q&A

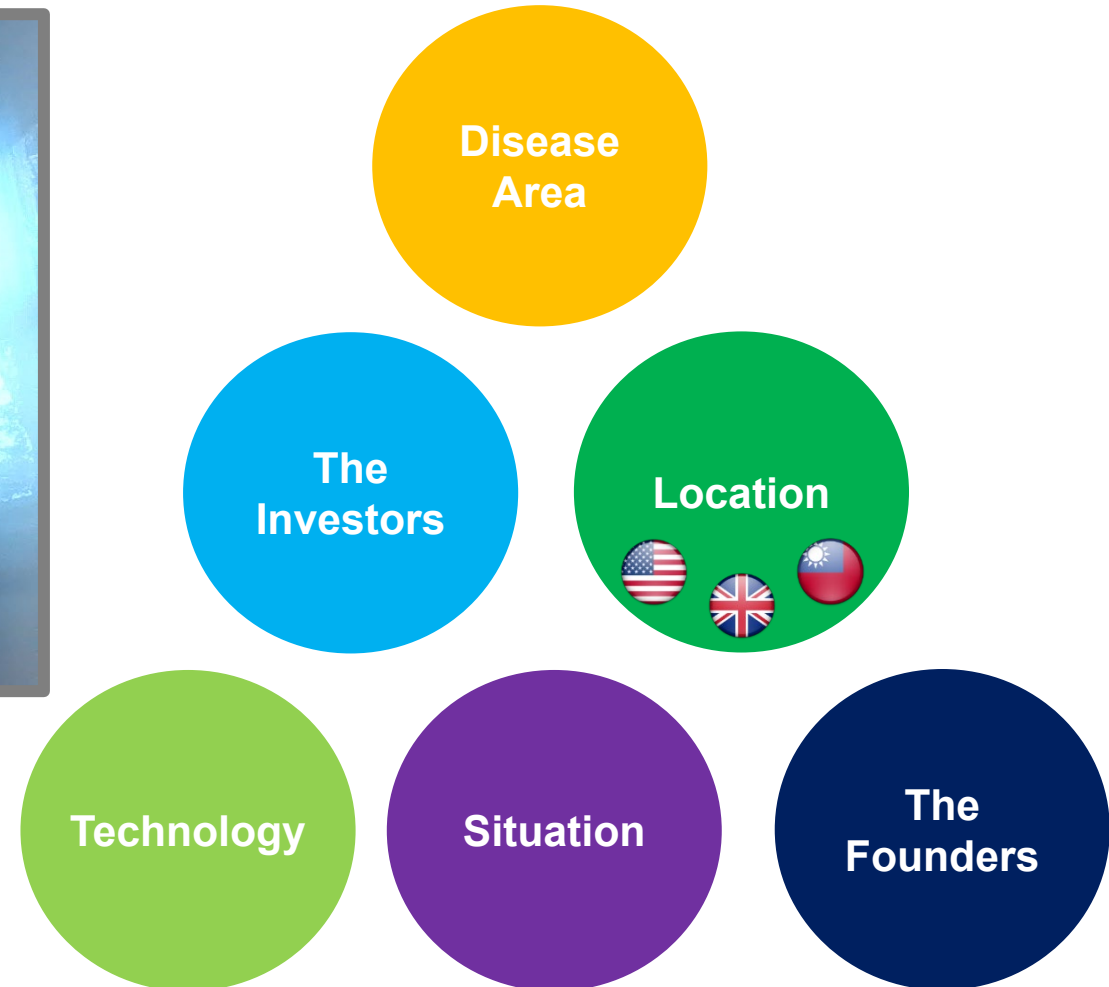
# Why am I talking to you?



# Introducing the company in 1 minute ...

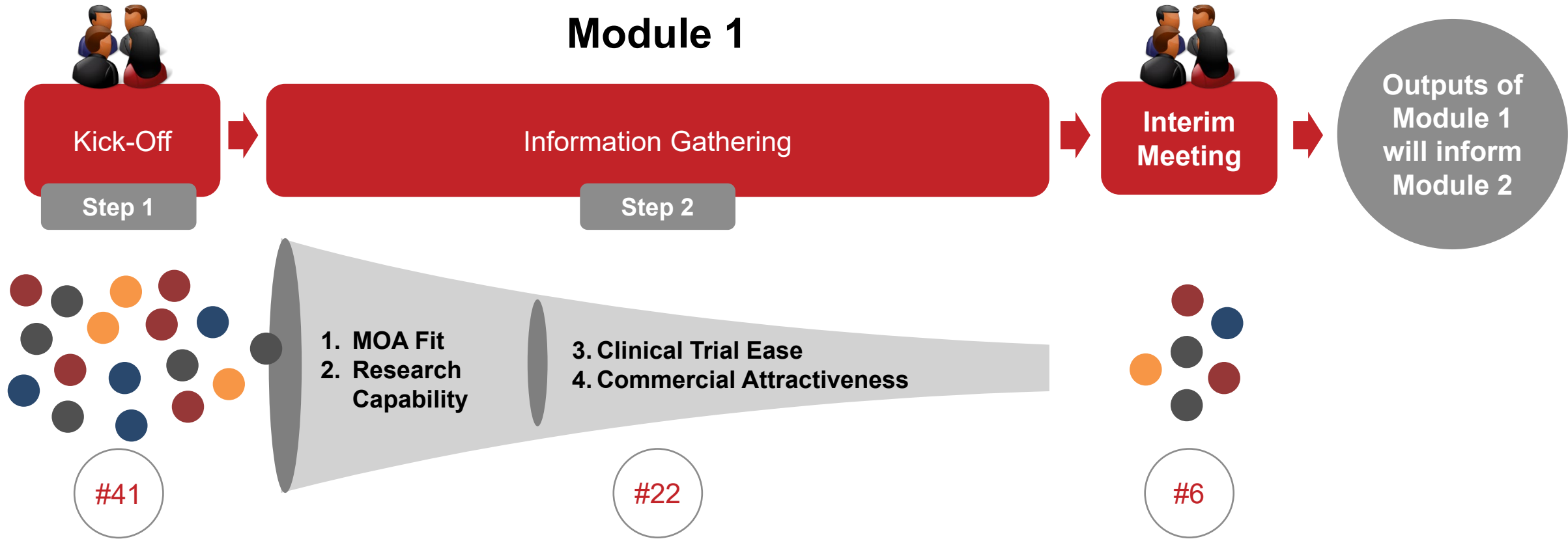


**Jack Castle**  
Corporate Strategy & BD  
Ochre Bio



# Indication Prioritization is (a bit) like Dating...

## Module 1

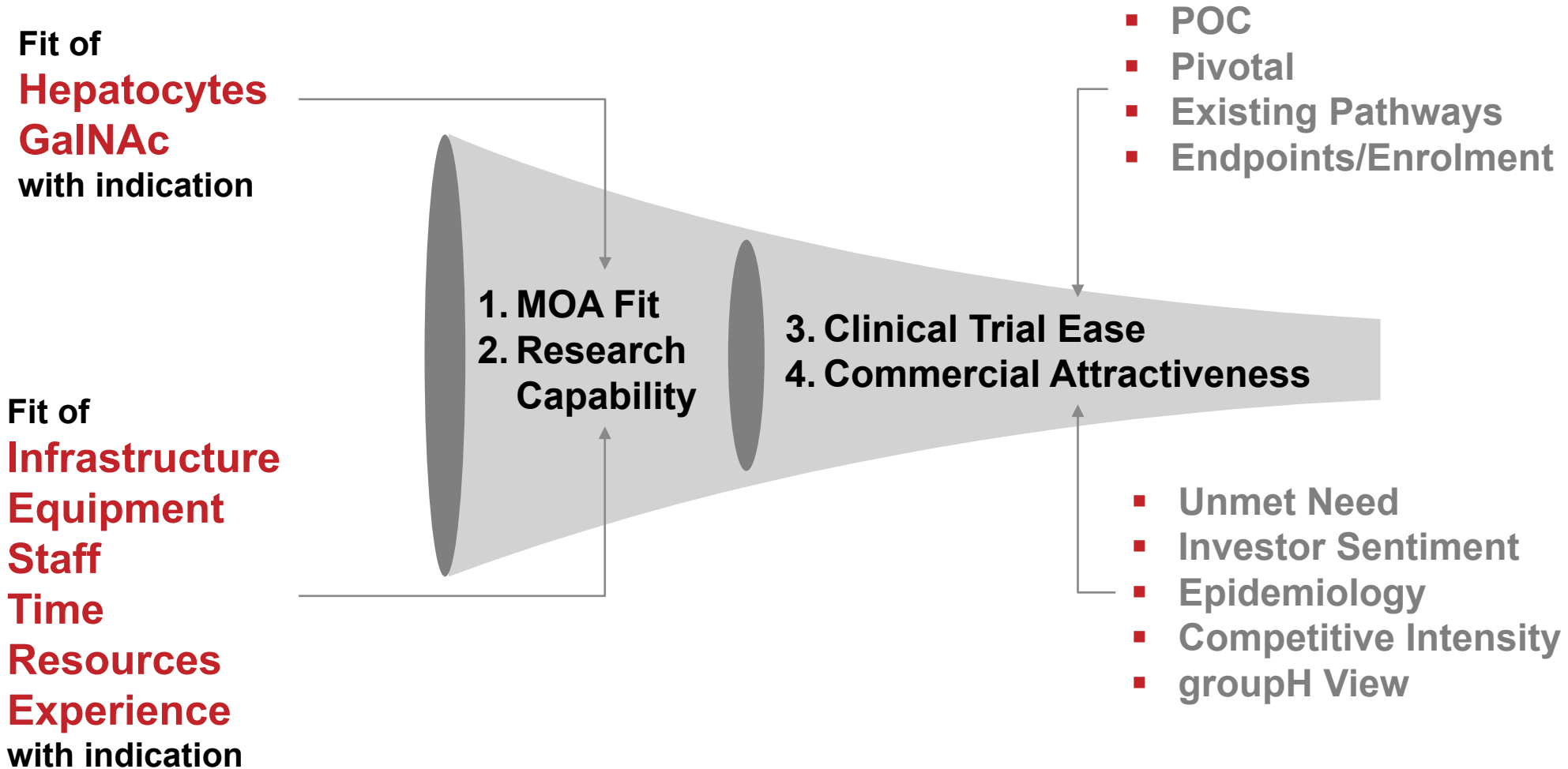


Create Universe of Indications

### Sources

- Kill Indications ASAP
- KO criteria / Scores
- Competitor Analysis
- Desk research & databases
- Internal survey + interviews (n = 5)
- Limited PMR (General Hepatologists)

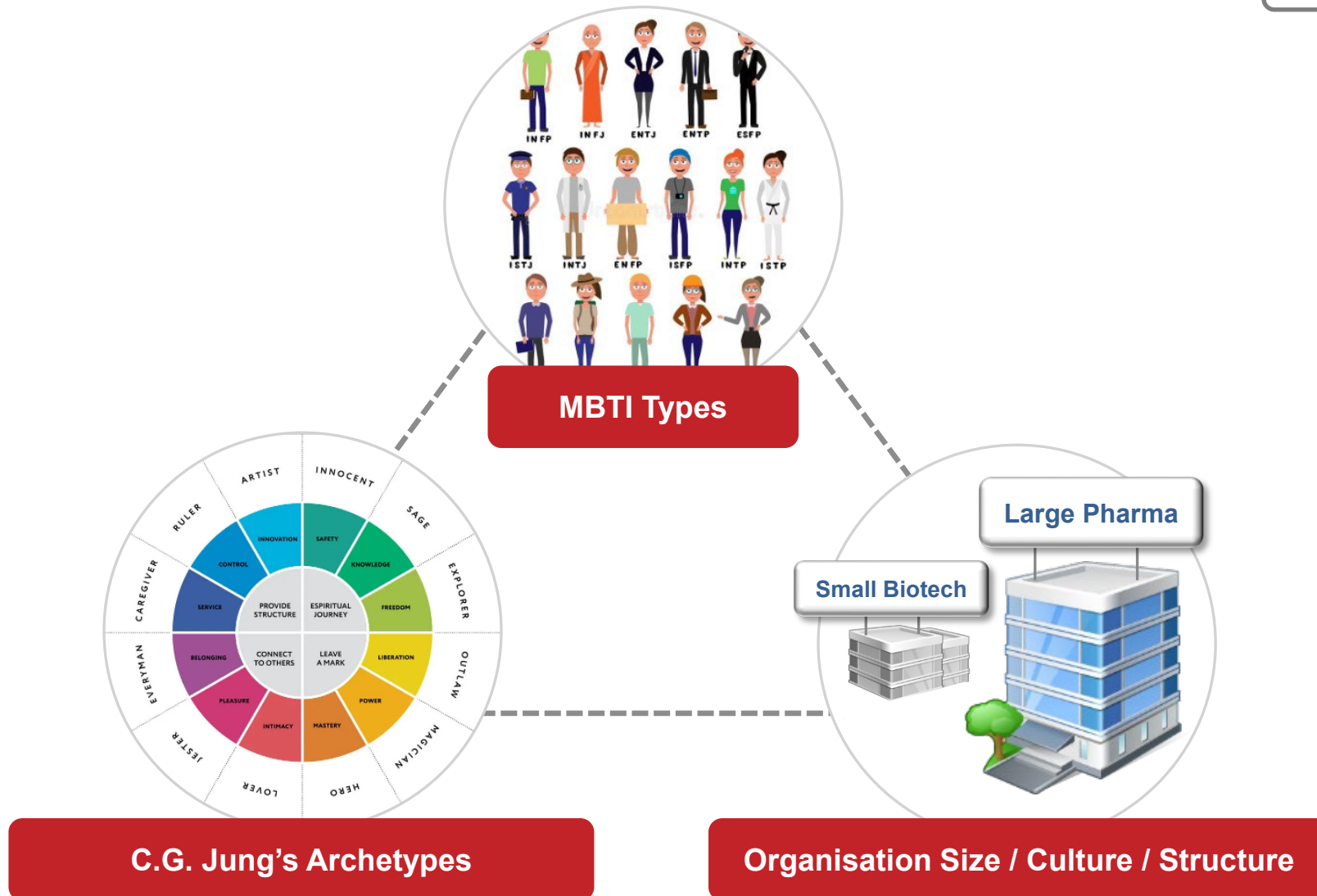
## A Closer Look at Our Criteria





# It's not just a process: People and Organisations

*illustrative*



*illustrative*





# Indication Candidate Profiles x 6

Module 1 Output Indication Candidate X		Ochre Rating*		Time to IND ▪ Time	groupH Rating
		MOA	Research Capability		
<b>Disease Description</b> ▪ Comments		<b>Epidemiology</b> ▪ Desk research & analysis ▪ Prevalence & Incidence ▪ Mild / Moderate / Severe Patient Segments		<b>Ease of Clinical Trial</b> ▪ Desk research & analysis ▪ Clinical Trial precedents and analogues? ▪ KOL hepatologist comments ▪ Other insights from advisory boards and internal interviews	
<b>Segments</b> ▪ Comments		<b>Unmet Needs</b> ▪ Existing Standard of Care ▪ Comments and ratings from physician interviews		<b>Commercial</b> ▪ Desk research & analysis ▪ Analyst reports and forecasts ▪ Commercial databases ▪ Epidemiology and unmet needs ▪ Investor sentiment ▪ Pricing potential	
<b>+</b> ▪ Summary of positive drivers	<b>-</b> ▪ Summary of negative drivers	<b>Partner Interest</b> ▪ Comments		<b>FDA ODD</b> ▪ Comments	<b>Strategic Fit</b> ▪ Comments
				2.5	
				3	

## Hints & Tips

1

Attractiveness Criteria may vary

2

Indication 'Universes' can be large – wielding the axe

3

Don't be precisely wrong with commercial potentials

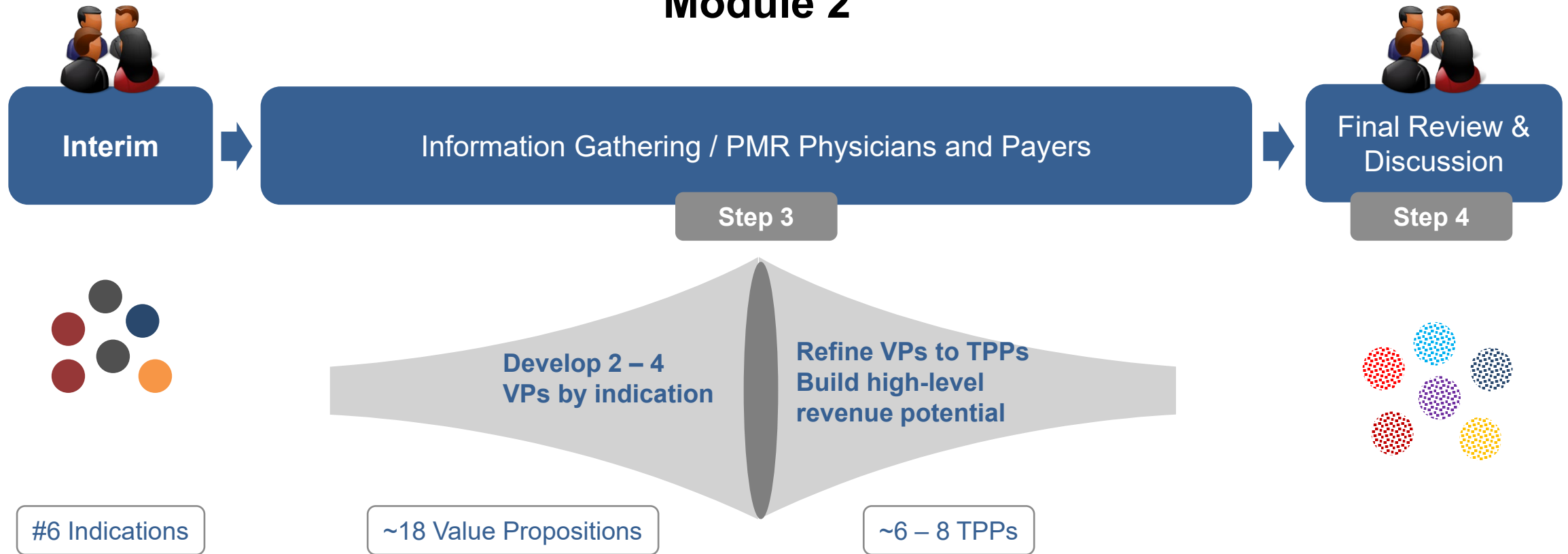
4

Structure & Templates help to expose gaps in understanding



# Value Proposition Development & Refinement

## Module 2



### Sources

- Refine Indications
- Develop VPs / TPPs
- Commercial Potentials
- Desk research & databases
- Analogues / AI
- PMR ~9 KOL (indication experts) doctors & 3 payers

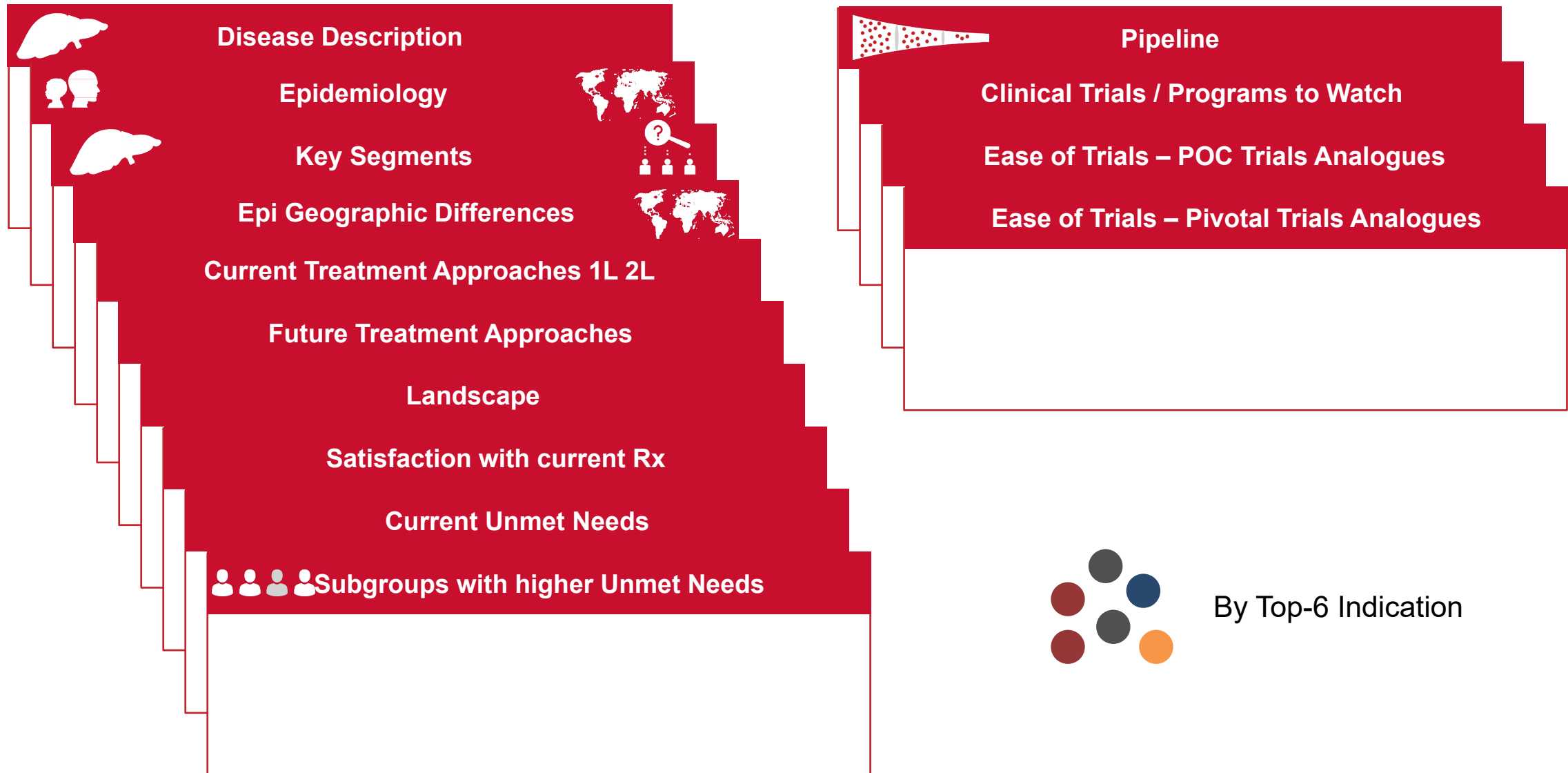
# We drafted 1 – 3 Value Propositions for each indication

*illustrative*

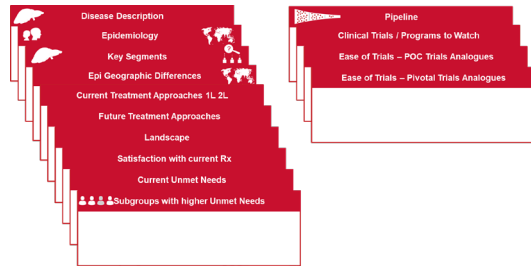
## Value Proposition – Product A

Features	Product A Value Proposition	
Indication		
Patient Populations		
Product Type		
Formulation / Administration		
Trial		
Efficacy/Outcomes	<ul style="list-style-type: none"> <li>• <u>Primary</u> Endpoint:</li> <li>• Potential <u>Key Secondary</u> Endpoints</li> <li>• <u>Other</u>:</li> </ul>	<ul style="list-style-type: none"> <li>• Potential <u>Other Secondary</u> Endpoints:</li> </ul>
Safety		

## Which materials were developed? – Granular Indication Landscapes



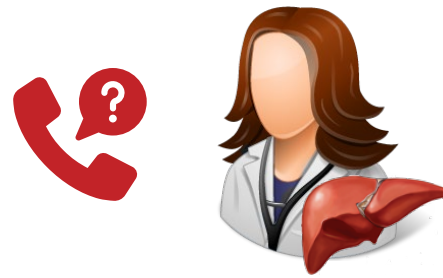
# Materials and Value Propositions were in-depth discussed and finally validated



~6 Indication Landscapes

Value Proposition – Product A	
Features	Product A Value Proposition
Indication	
Patient Populations	
Product Type	
Formulation / Administration	
Trial	
Efficacy/Outcomes	<ul style="list-style-type: none"> <li>Primary Endpoint</li> <li>Potential Key Secondary Endpoints</li> <li>Other</li> </ul>
Safety	

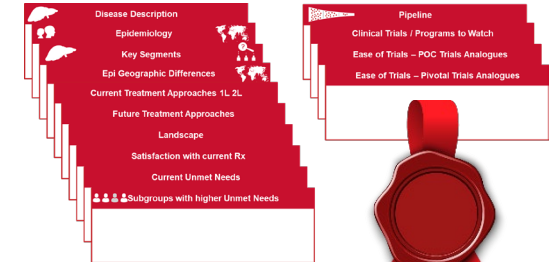
~12 Value Propositions



~9 KOL Hepatologists



~3 Senior Payers



~6 Validated Indication Landscapes

Value Proposition – Product A	
Features	Product A Value Proposition
Indication	
Patient Populations	
Product Type	
Formulation / Administration	
Trial	
Efficacy/Outcomes	<ul style="list-style-type: none"> <li>Primary Endpoint</li> <li>Potential Key Secondary Endpoints</li> <li>Other</li> </ul>
Safety	

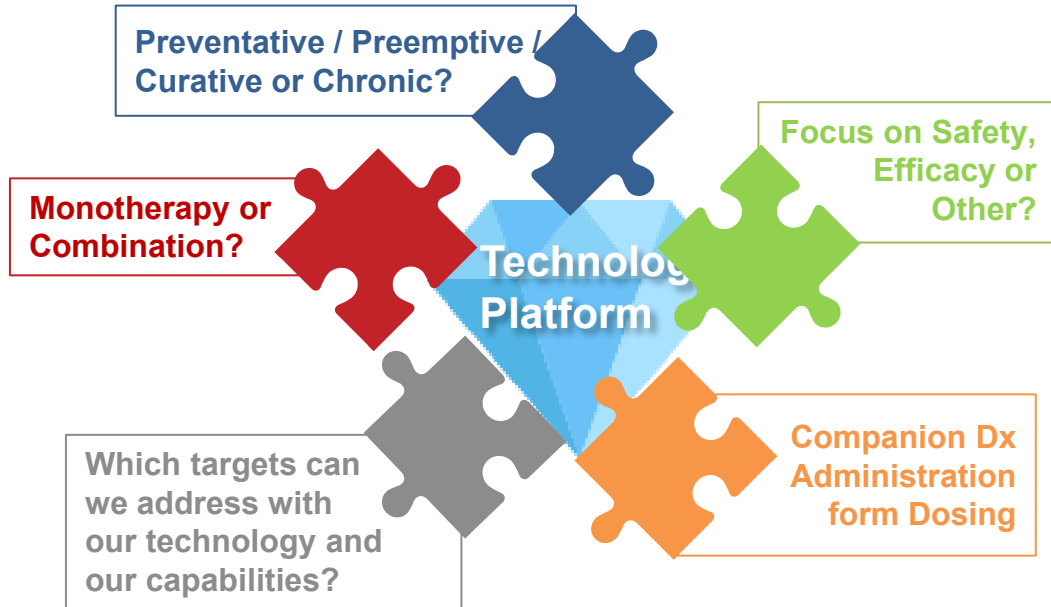
~6 TPPs



# Building the plane while flying...

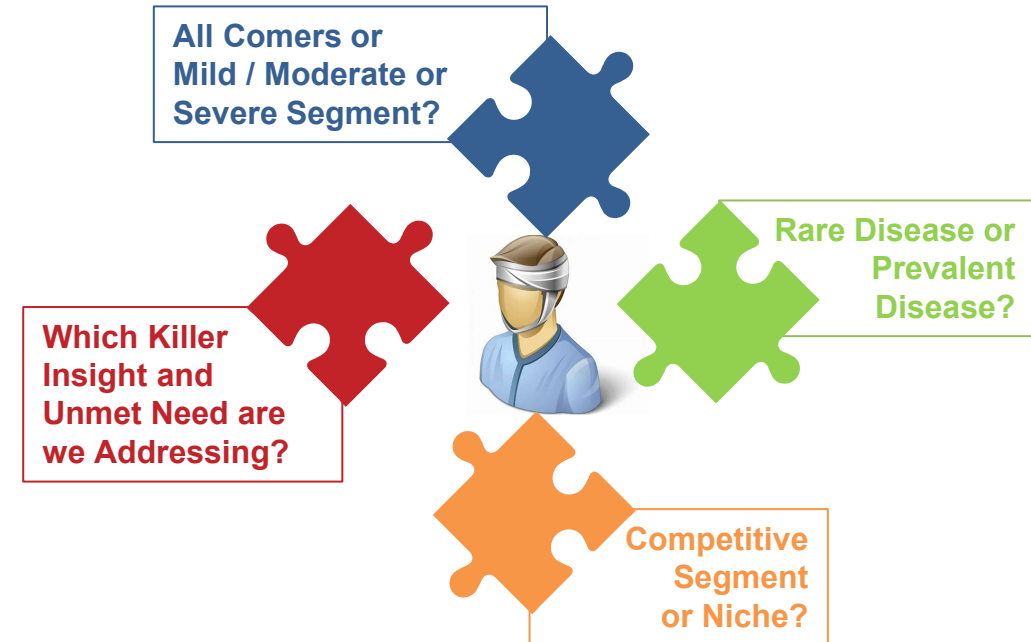
*illustrative*

*What the **treatment** will look like...*



*... can we differentiate vs. SoC?*

*...and which **patients** are meant to be treated*



*... will doctors recognize clinical value?  
... will payers see payer value?  
... will patients experience their needs met?*

# The commercial attractiveness was described in a one-page peak sales calculation and a Commercial Summary put together for each indication

## One-Page Commercial Case per TPP

### High Level Sales Potential – Indication XXX

		Epidemiology for Hospitalised XXX Patients				Launch Date	Ex-man. Net Price per treatment	Peak (penetration potential)	Peak Sales Potential, \$m	
XXX	Positioning	US		EU Top-5						
	Product A – All Comers	Favoured by Doctors	# of Hospital Admissions for XXX	Drug Treatment Rate with Novel Rx	# of Hospital Admissions for XXX	Drug Treatment Rate with Novel Rx	2030	US: \$35,000 EUS: \$100	US: 40% EUS: 40%	US: 1,770m EUS: 5m
			158,000	80%	150,000*	80%*				
	Product B – High Risk XXX		79,000	90%	75,000*	90%*	US: \$55,000 EUS: \$37,500	US: 40% EUS: 40%	US: 1,564m EUS: 1,013m	
Upsides		A Upsides in not included geographies B Use in non-severe XXX segment (not discussed with KOL doctors)					Total Peak Sales Potential, \$m		Product A = \$1,775m Product B = \$2,631m (theoretical)	

#### Scope to expand to other indications

- The overlapping pathophysiology between XXX and XXX could offer XXX compounds to be repurposed and expand to XXX (see GSK compound in pipeline section)

#### Other Forecasting Assumptions

- We assume Product X will become SoC but while the pipeline is only moderately busy there might be other products competing in XXX. We assume at least one other competitor in the XXX space
- Epidemiology for XXX is based on XXX presentation from May 2023, we assume that the majority of hospital admissions for XXX are XXX but not 100% (no data currently on share of XXX:32 among hospital admissions)
- We assume 50% of XX hospital admissions are of particularly high-risk because of co-morbidities
- Peak penetration assumed to be achieved after 10 years
- Peak penetration assumed as entrant #2 in a market of 2 products with an XXX label
- \*group estimate, requires validation

illustrative



## Commercial Summary

### XXX – Commercial Summary

#### Key Facts

- XXX XXX (XX) is the most severe form of XXX XXX happening in patients who drink excessively causing 80% of hepatotoxic deaths and 50% of XXX cirrhosis
- Severe XXX XXX (XXX XXX > 21, XXX 332) can develop suddenly and quickly lead to XXX failure and death at a 90-day mortality of 30-50%
- XXX patients present with a subacute onset of fever, hepatomegaly, leukocytosis, marked impairment of XXX function and manifestations of portal hypertension (e.g. hepatic encephalopathy)
  - Prevalent comorbidities include infection, sepsis, acute renal insufficiency, gastrointestinal bleeding and malnutrition
- > 50% of XXX survivors are re-hospitalized within a year and nearly 75% through the second year
- In the USA, XXX XXX disease affects more than 2 million people; approximately 1% of the population
- XXX is responsible for 158,000 hospitalizations / year of which most due to XXX
- Prognostic scores (XXX, XXX, GXXS, DF, Lille) indicate mortality risk and response to corticosteroid treatment; XXX and Lille score are most widely used
- All hospitalized XXX patients are critically ill and at high risk of mortality
- An even higher risk of mortality is associated with comorbidities such as obesity, renal dysfunction, T2D, CV conditions, infections, sepsis, corticosteroid ineligible and corticosteroid non-responders
- There is no drug treatment to cure XX or XXX; long term treatment involves helping with abstinence, easing symptoms and to prevent/slow disease progression
- Acute XXX requires hospitalization and some patients will also need ICU support
- Acute treatment involves alcohol withdrawal, providing hemodynamic and nutritional support, infection surveillance and gastric mucosal bleeding prophylaxis
  - 1L Drug Treatment: corticosteroids (off-label)
  - 2L Treatment: potential XXX transplantation, eligibility <3%
- No approved drug products and a limited pipeline
- GSK is considering investing in an XX program for GSK-XXX (XXX modulator (RNAi), currently Ph2 NASH)
- XXX, XXX, XXX, XXX, XXX, XXX in Phase 2 are main contenders, 2 other compounds in Phase 1

#### Unmet Needs

- Satisfaction with current treatments in XXX is very low as corticosteroids lived benefits of up to 4-weeks or don't work at all
- Reducing short-term mortality is by far the most important unmet need

#### Physician and Payer Feedback

Ochre Value Proposition

#### TPP Feedback

- Highly attractive TPP
- Broad-label, XXX-32 trial recommended
- Alicom population preferred over high-risk population for PoC
- Primary endpoint: a relative reduction in mortality by min. 10 - 20%
- Other secondary endpoints accepted
- Alicom TPP A preferred over HR TPP B

#### Trial Ease (PoC/Pivotal)

- Quick 28-day PoC trial against historical controls or placebo (<20 - 50 pts)
- 3-months randomized, pivotal trials in 2b or 3 (~2-300 pts.)
- Safe product needed due to low patient tolerance

#### Peak Sales Potential 2040 – Alicom TPP

- Launch 2030
- PY share = 40%, XXX Entrant #2
- US: 158k, EU: 150k XX hospital. / year
- 80% of all XX admissions drug treated

\$1,770m \$5m (CS)\* \$1,013m\*\*

#### Indication Feedback

- High burden in XXX and unmet need for an alternative to off-label corticosteroid therapy for XXX accepted

#### TPP Feedback

- Patient selection of XXX-32 accepted
- Proposed regimen highly attractive
- Clarity needed if monotherapy or add-on
- Primary and secondary endpoints seem complete, hospitalization a big cost driver
- US payers accept trial vs. placebo if ok with FDA, EU payers demand trial vs. CS for monotherapy

#### Coverage

- US: Coverage likely with PA, CS not seen as price comparator
- EU: Coverage likely, if CS deemed formal comparator and no H2H, price negotiations could be more challenging

#### Pricing Potential

- US: \$35k per treatment (WAC, net)
- EU: \$100 per treatment if compared to CS, \$35k if compared to LT or G-CSFs

illustrative

# Hints & Tips

1

**Indication Prioritization +  
TPP Development  
=  
Closely Linked**

2

**Viable TPPs are a jigsaw  
Love at first sight is rare**

3

**No progression without  
deeper understanding**

4

**Few Short-Cuts once down  
to Top-6**



# Our Experience of AI in Commercial Analysis so far

1

AI currently has the role of a  
1<sup>st</sup> year analyst

2

PMR and Data Analysis in  
this area not very data-heavy

3

Screening in/out +  
Judgements + Killer Insights  
= Human Intelligence

4

AI in Hypothesis Generation  
for Analogues



**Future**  
Synthetic Patient  
Synthetic Doctor



## Summarizing the project outcomes in 1 minute ...



ochre**bio**

**Jack Castle**  
Corporate Strategy & BD  
Ochre Bio

# Discussion + Q&A





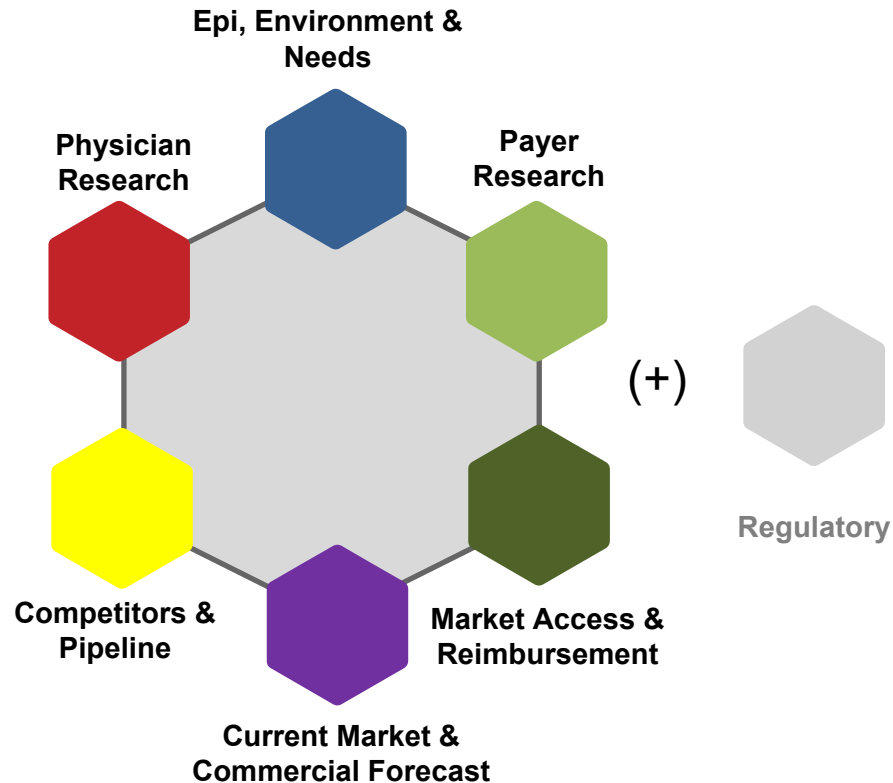
# Appendix



# Early-Stage Specific Tools



# ***“Children are not small adults” - Early-stage work is different to working at later stages of the product life-cycle***

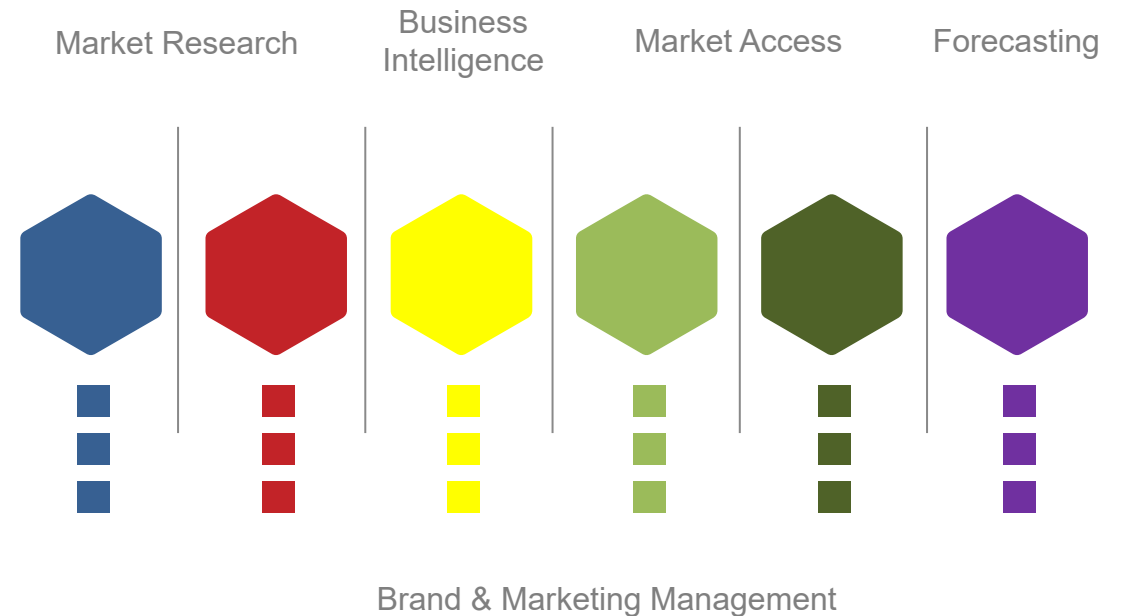


- > # of compounds
- < budget per compound

VS.

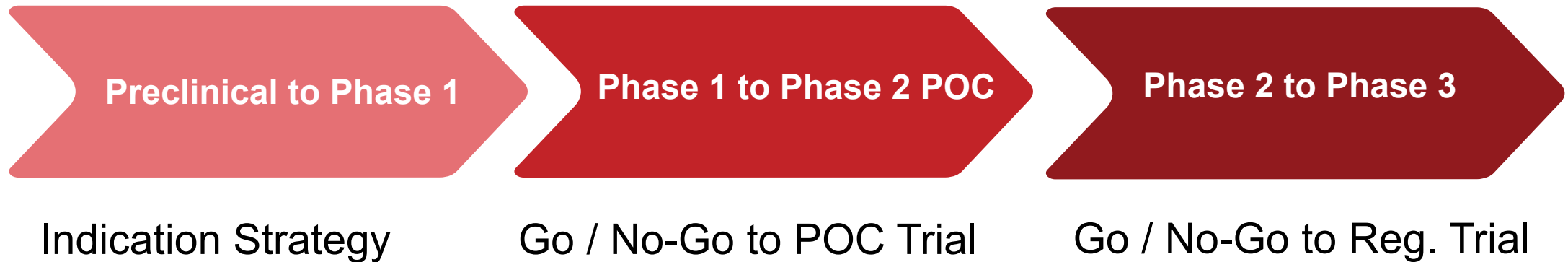
VS.

## **Departmental + Functional Silos**



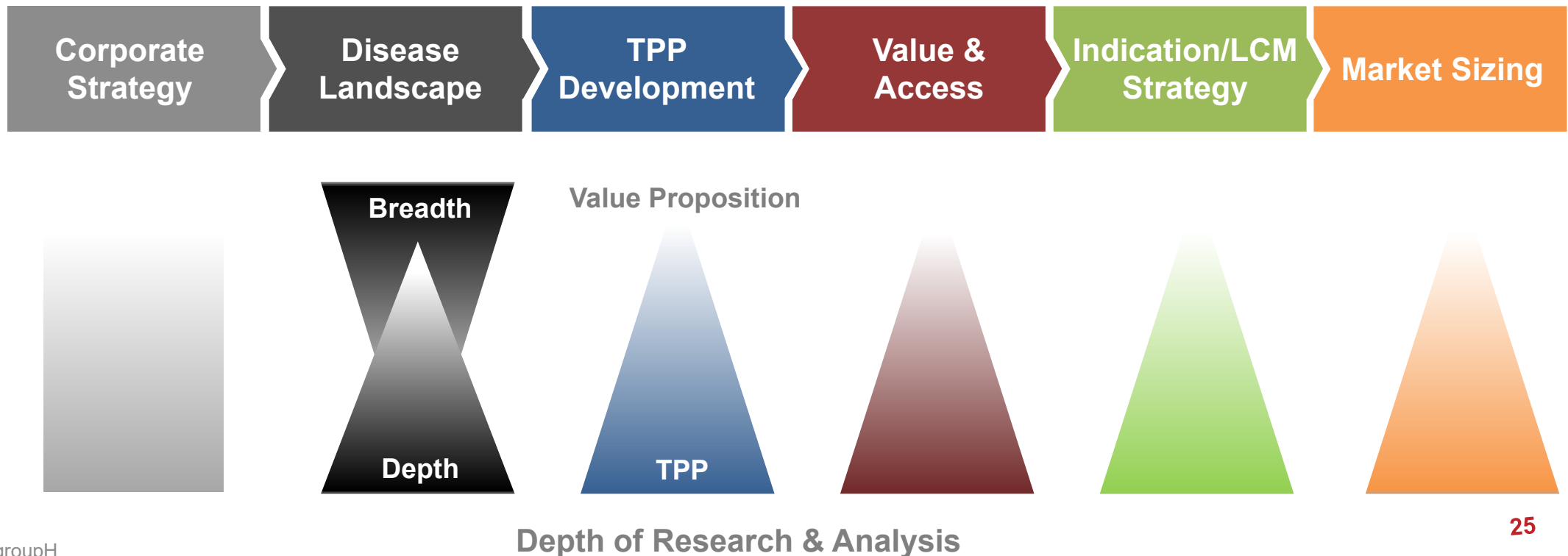
- < # of compounds
- > budget per compound

# Pipeline Commercial Teams are Shaping the Asset Development through Stage-Appropriate Strategies



**For Early-Stage programs the set of domains are the same as for later stage programs but the questions and focus may be different**

- Across the program development, commercial strategies can be guided by stage-specific questions across a certain **Set-of-Domains** of considerations
- Until first-in-human decision, pipeline commercial teams are focusing on building the asset indication strategy

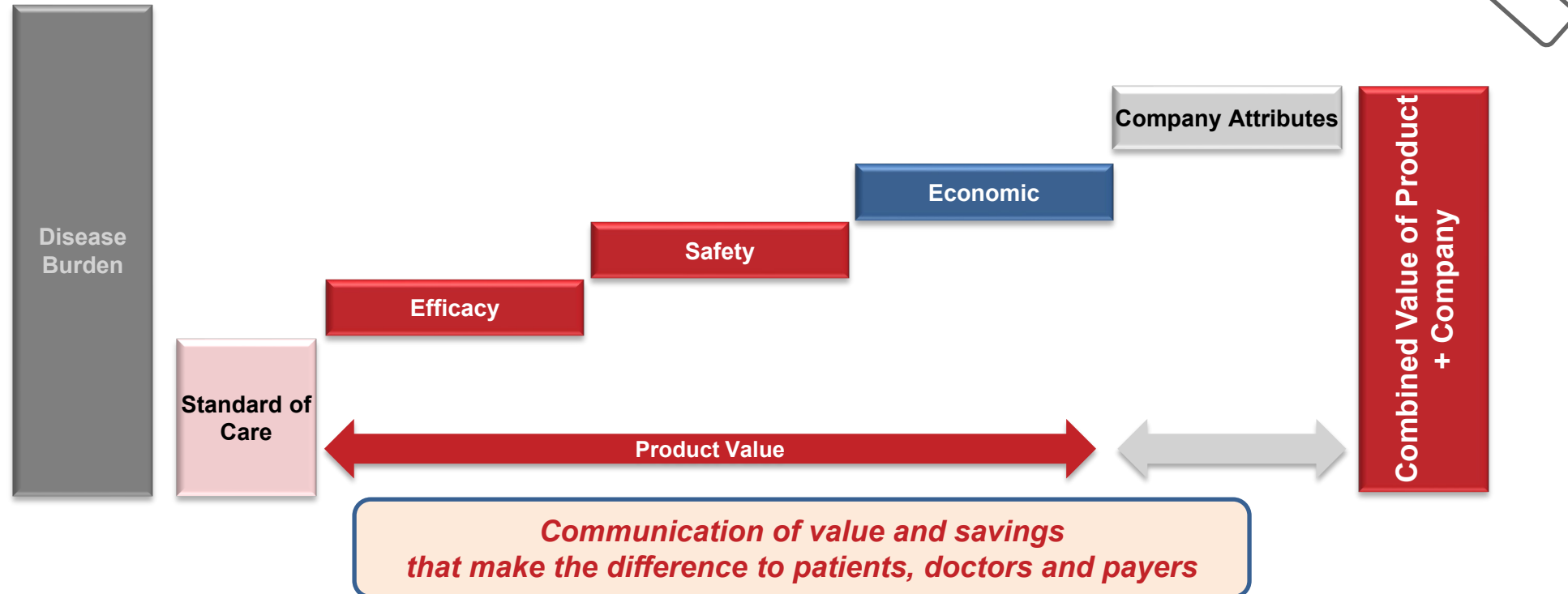


Your *Value Story* identifies all the relevant sources of differential value offered by a specific product

## *Value Steps as part of your Value Story*

*Differential Value of a Company's Products Can Come From a Number of Different Sources*

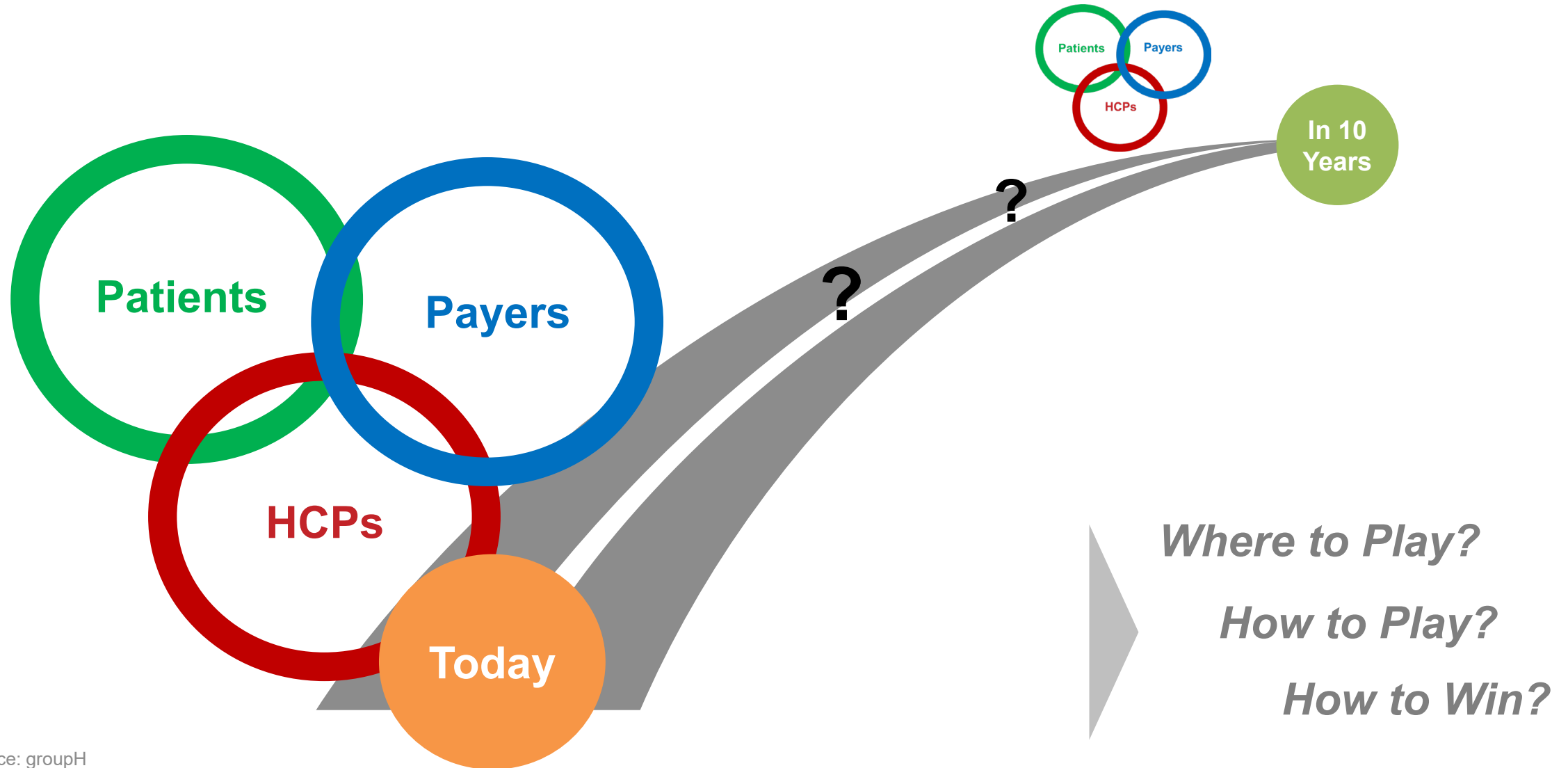
*Disease burden presents an unmet need that needs to be addressed*



Source: groupH, please note: in the context of early-stage development SoC (Standard of Care) typically refers to the future SoC prevailing at the time of launch, emotional, public health and political value not represented in this chart

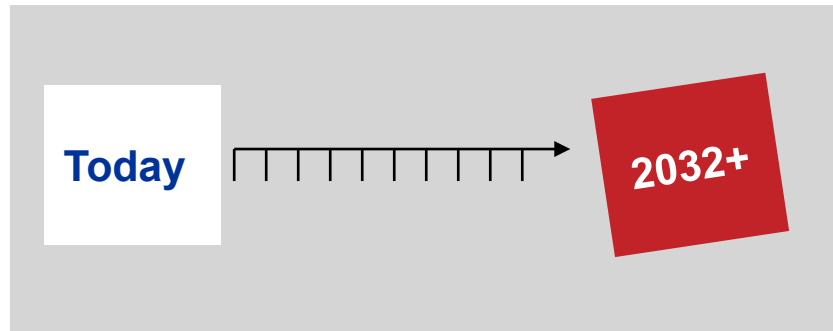


**Long-term *Value Assessments* are complicated by the uncertainty of the future competitive environment and the treatment landscape**



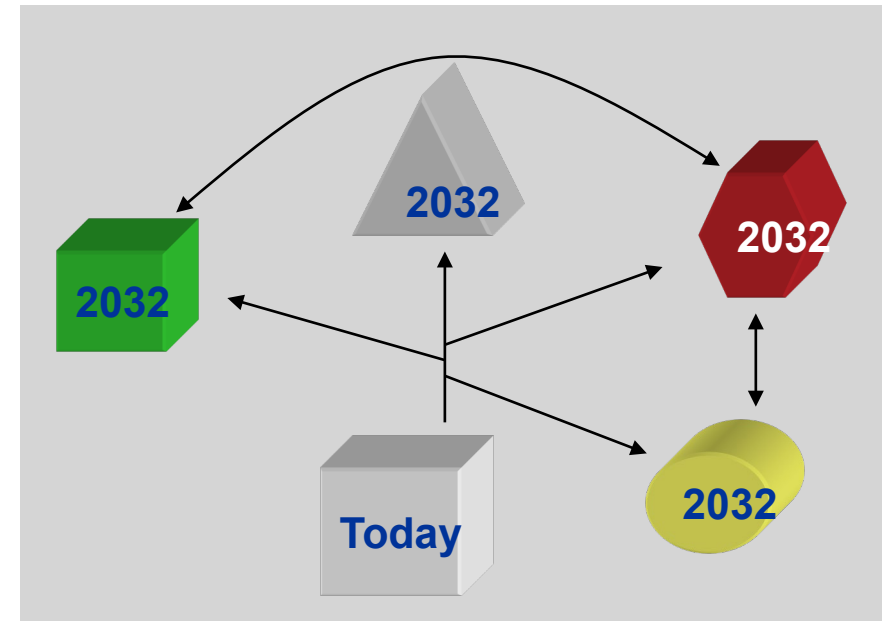
# The future is not necessarily a linear extrapolation of the present

Many organisations plan like this...  
Forecast a linear extrapolation of past trends

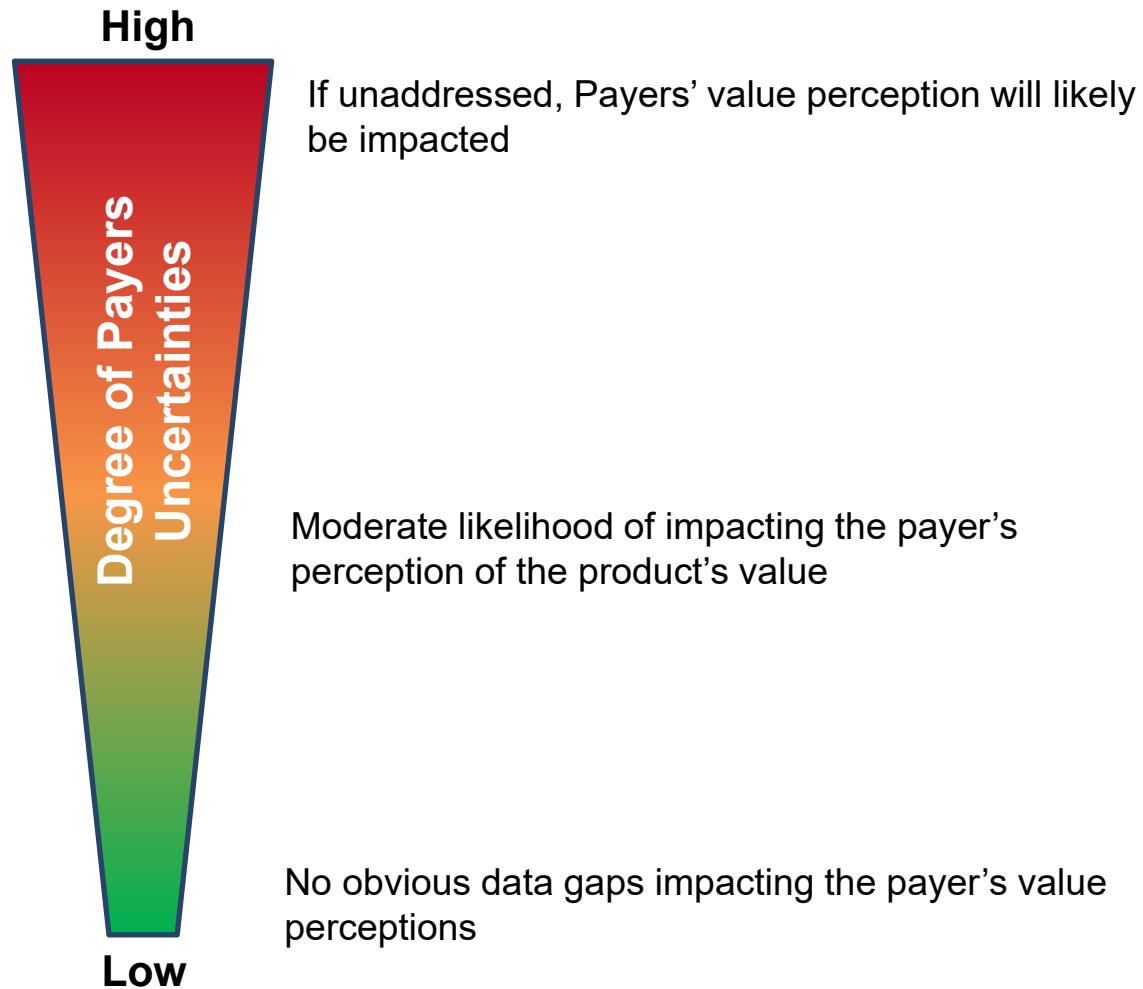


*"The world will be a little bit different"*

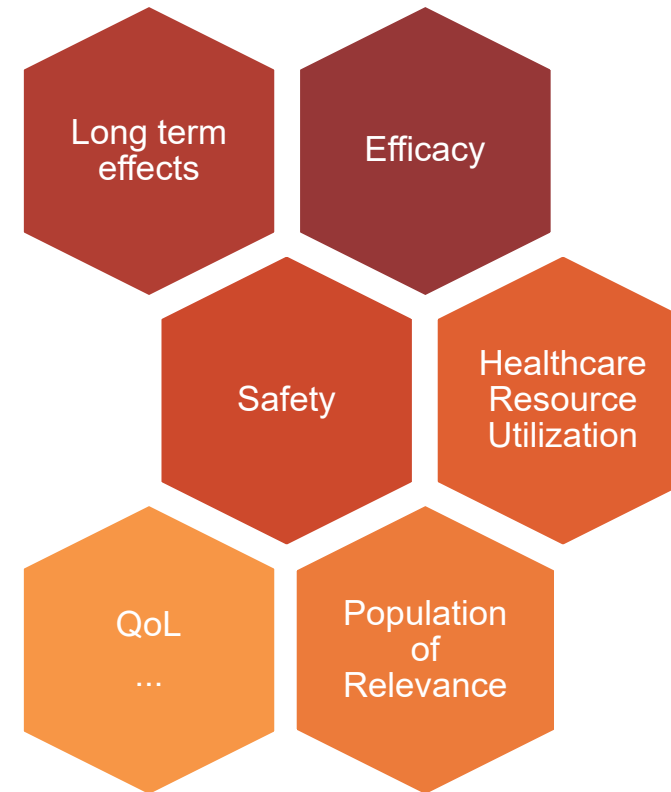
Even though the world looks like this...



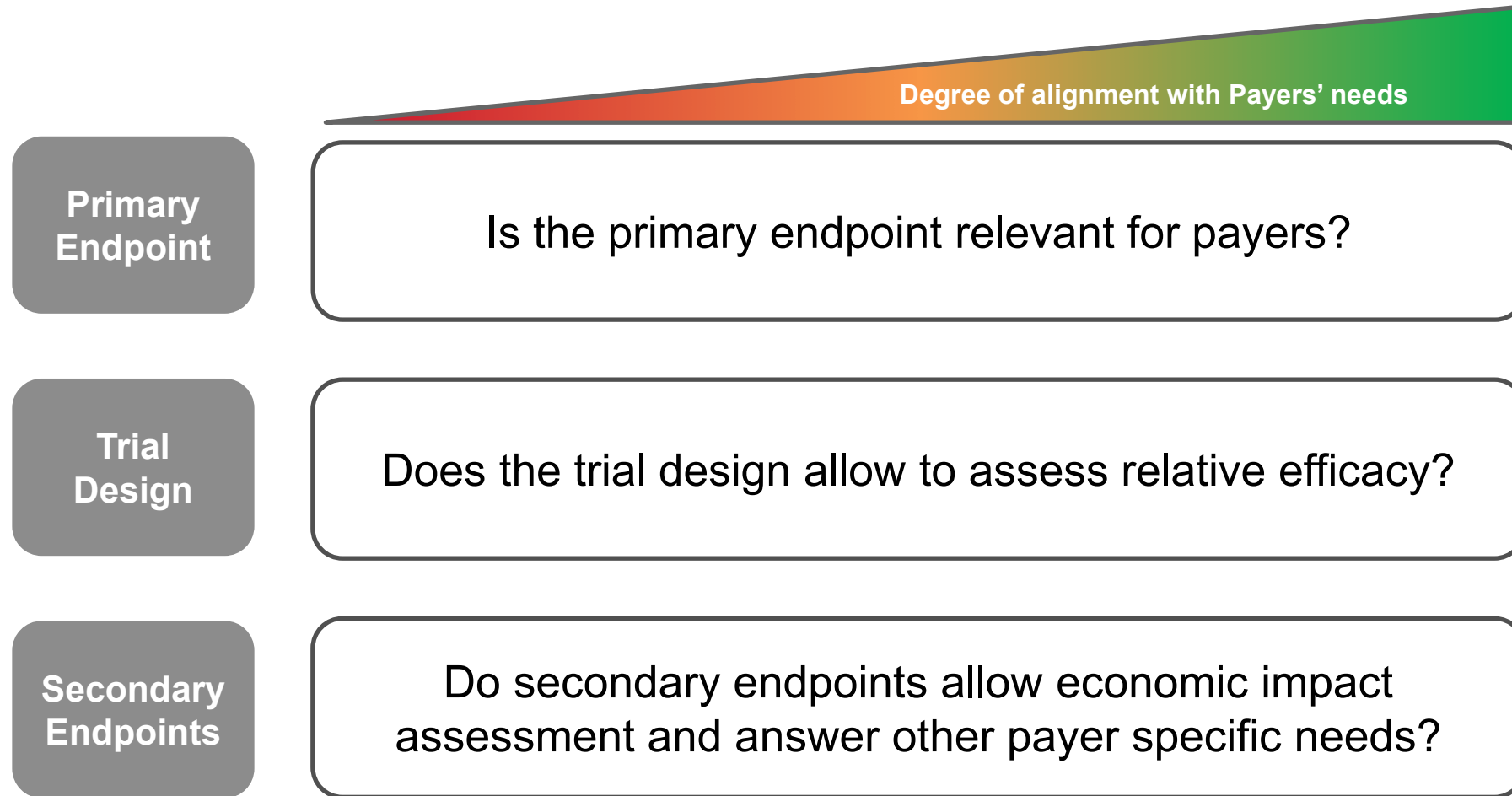
# Payer value uncertainty can be addressed early in order to maximize payer's value perception



## Domains of data relevance for payers



## A few questions can help to steer the clinical development strategy to make it fit for purpose for future payers' needs



Module 1 Output  
Indication Candidate X

MOA

4

Research Capability

2

Time to IND

Time

Disease Description

Comments

Epidemiology

Desk research & analysis

Prevalence & Incidence

Mild / Moderate / Severe Patient Segments

Ease of Clinical Trial

Desk research & analysis

Clinical Trial precedents and analogues?

KOL hepatologist comments

Other insights from advisory boards and internal interviews

Segments

Comments

Unmet Needs

Existing Standard of Care

Comments and ratings from physician interviews

Commercial

Desk research & analysis

Analyst reports and forecasts

Commercial databases

Epidemiology and unmet needs

Investor sentiment

Pricing potential

+

Summary of positive drivers

-

Summary of negative drivers

Partner Interest

Comments

FDA ODD

Comments

Strategic Fit

Comments

groupH Rating

4

2.5

3

For more information please visit  
**groupH.com** or contact

groupH Limited  
7 Mercier Road  
SW15 2AW, London  
UK

**Erik Holzinger**

erik.holzinger@groupH.com  
m +44 7718 967 633

groupH Inc, San Francisco

**Zach Donnell**

zach.donnell@groupH.com  
m +1 (415) 969 1986



LONDON

SAN FRANCISCO