

# AI Regulation Blueprint

A high level blueprint for domestic regulation of civilian advanced AI models.

### THREAT MODELS ADDRESSED

- Emergence of unexpected, dangerous behaviour
- Malicious use by known or low-resource bad actors
- Societal disruption from surprise release of a powerful model
- Concentration of power by model developers

### THREAT MODELS NOT CURRENTLY ADDRESSED (NOT EXHAUSTIVE)

- National security use of models
- Malicious use by unknown, high-resource bad actors
- Scenarios where deceptive alignment emerges with no prior warning between scaling steps
- Geopolitical conflict due to fear of "falling behind"

Authored by: Shuhar Aziz, Co-Authors: Carlos Donato

## CONTRIBUTE!

We believe AI is socially relevant and aim to encourage constructive exchange on managing it as a society. We invite and encourage anyone interested to contribute to this open effort.

### CONTRIBUTE BY COMMENTING



### CONTRIBUTE BY FORKING + EDITING

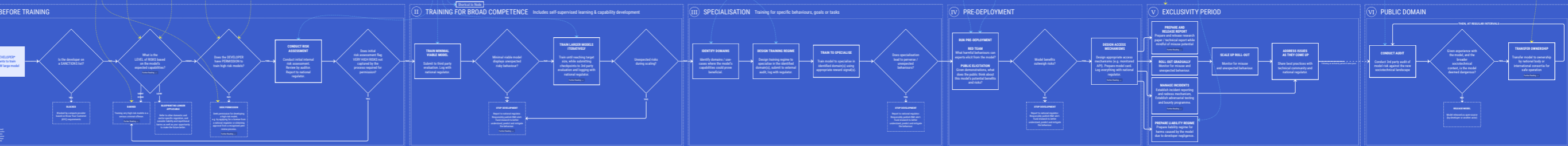
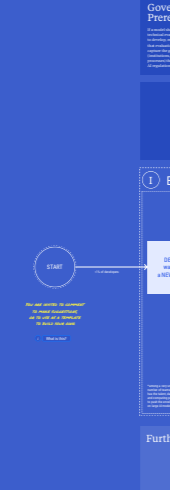
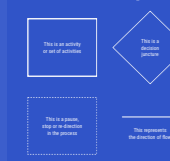


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Training for specific behaviours, goals or tasks
- IV Pre-deployment** [MAP TO SECTION IV](#)
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## How to Read This Blueprint



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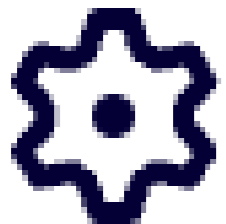
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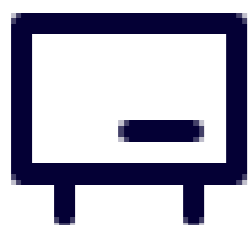


LOOK FOR THIS ICON  
ON THE LEFT

## CONTRIBUTE BY FORKING + EDITING:



LOOK FOR THIS ICON  
ABOVE, THEN...

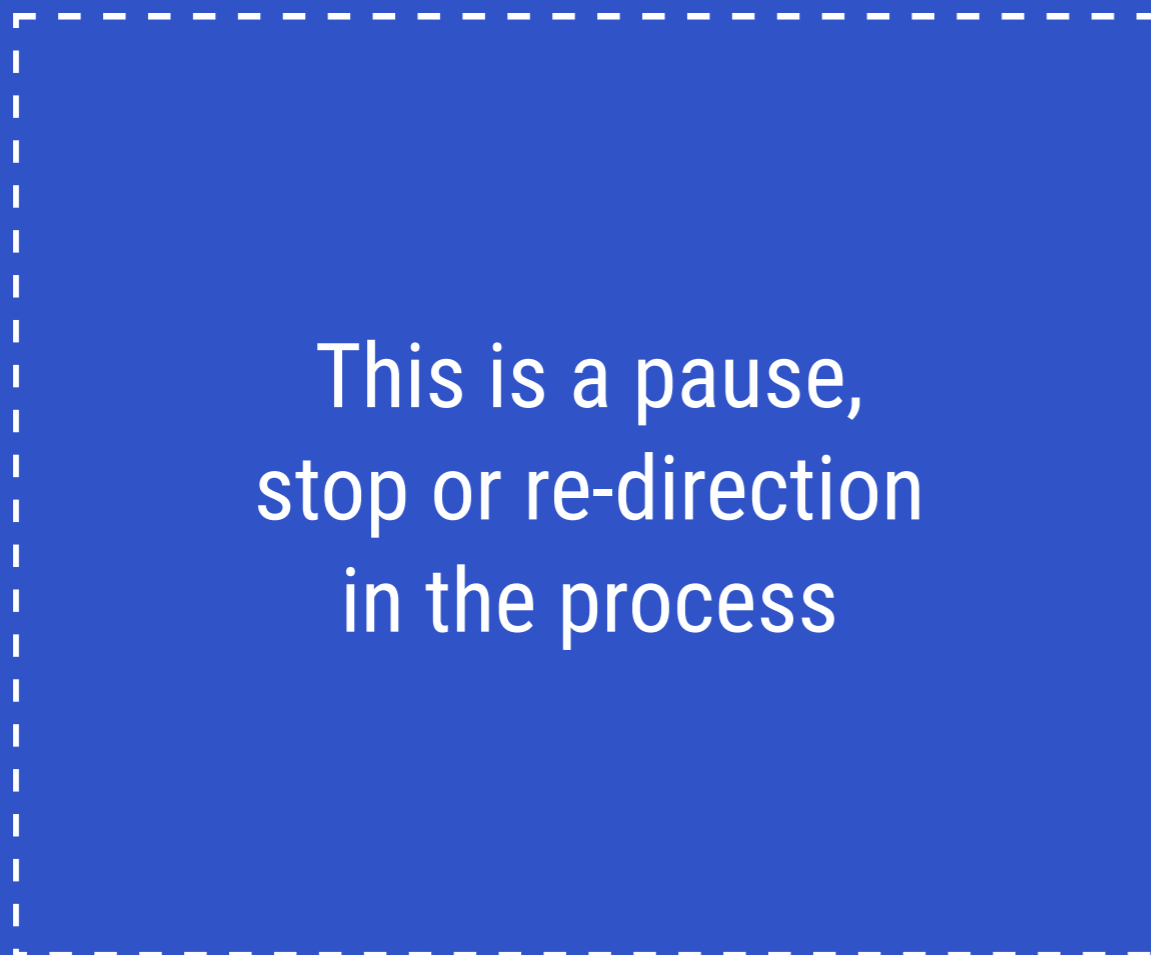
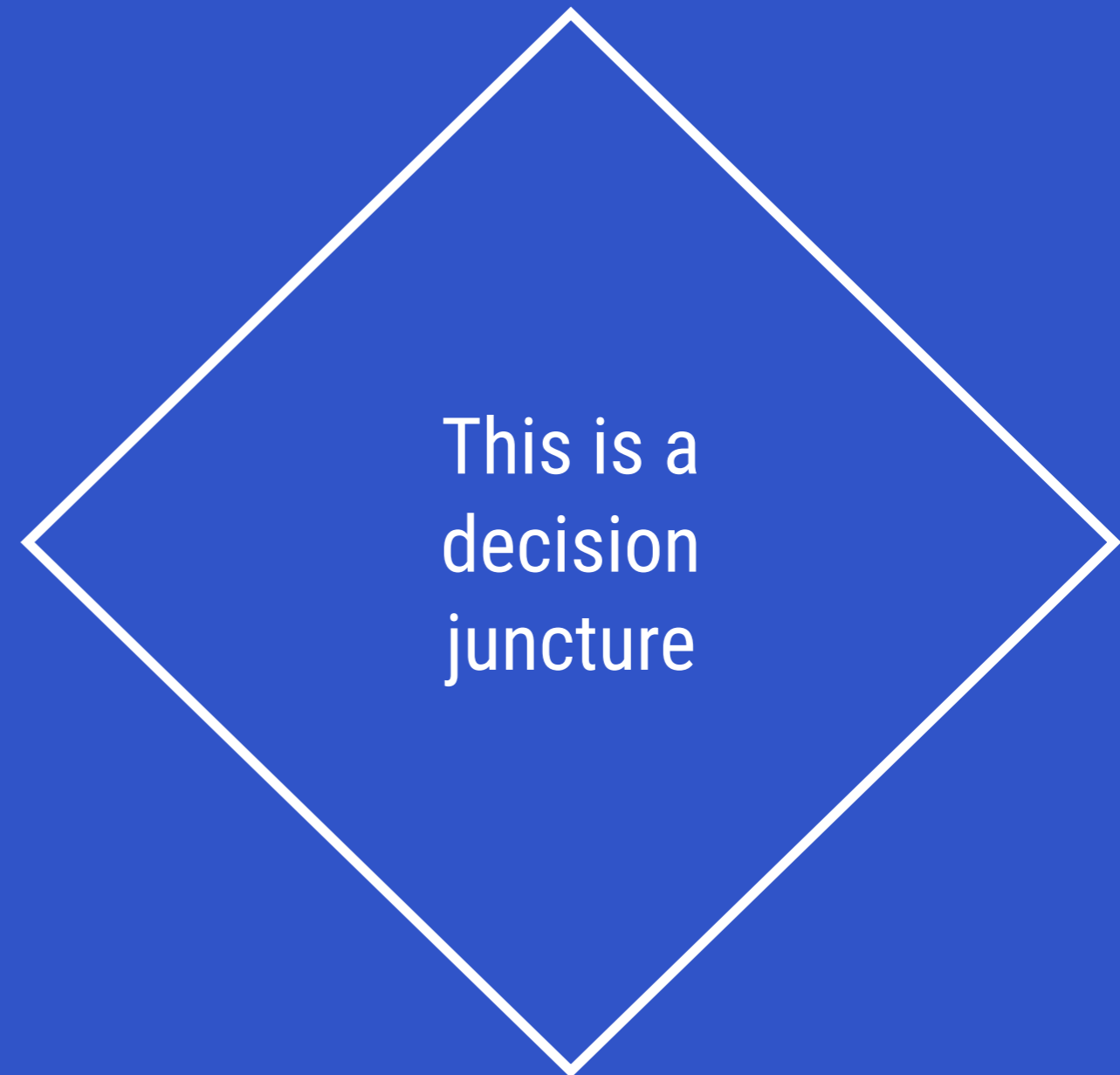
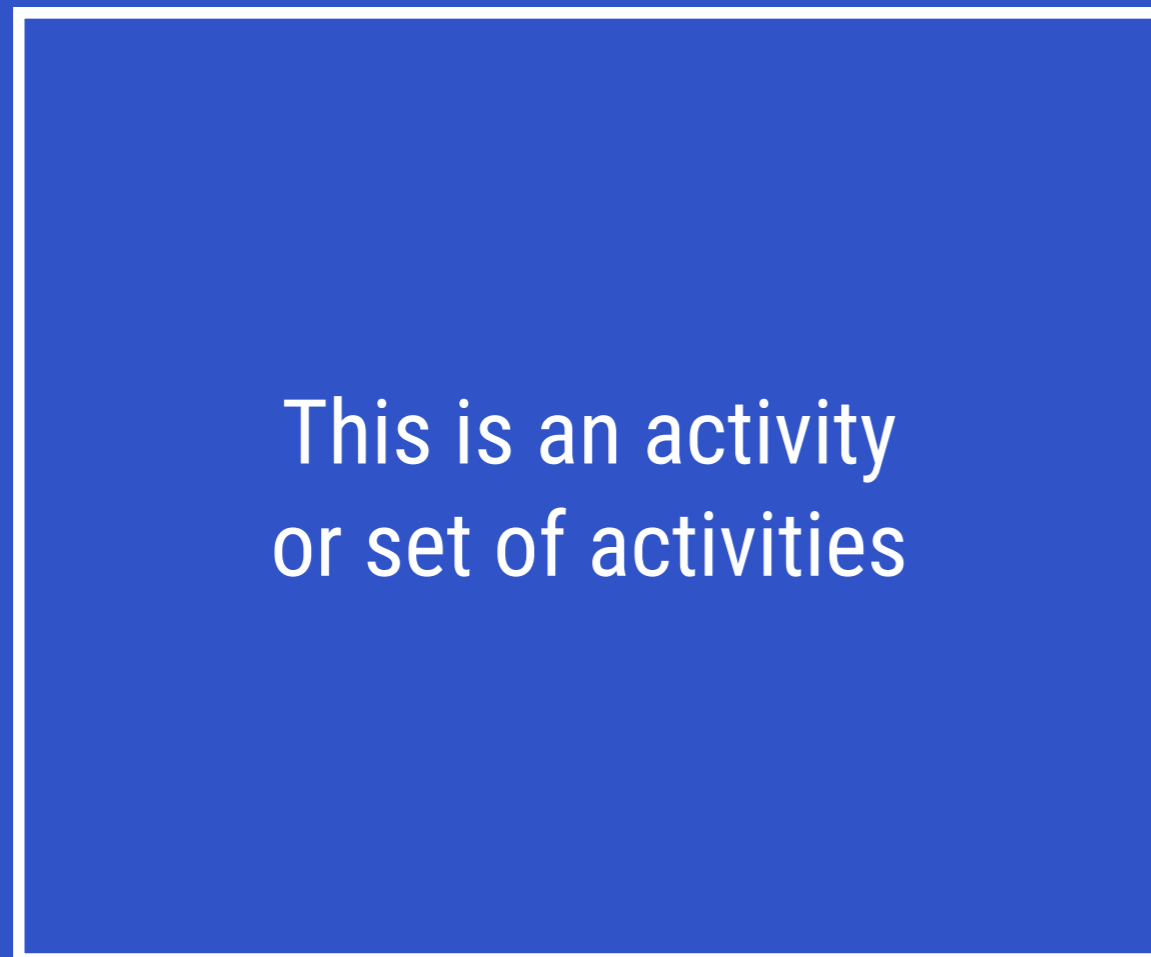


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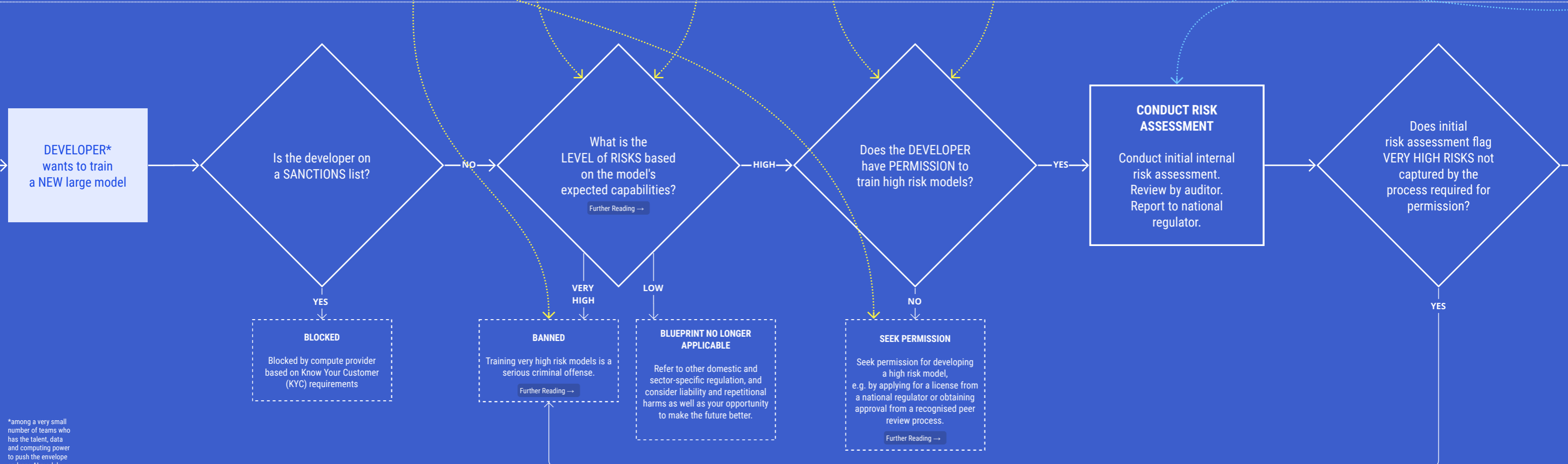
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# How to Read This Blueprint



This represents  
the direction of flow

# I BEFORE TRAINING



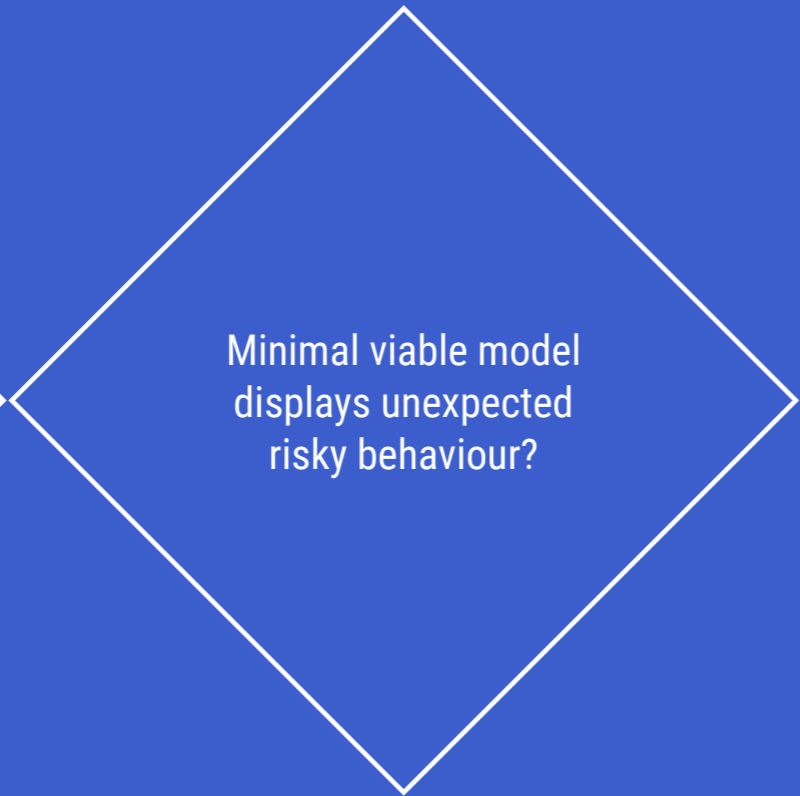
\*among a very small number of teams who has the talent, data and computing power to push the envelope on large AI models

## II TRAINING FOR BROAD COMPETENCE

Includes self-supervised learning & capability development

Shortcut to Node

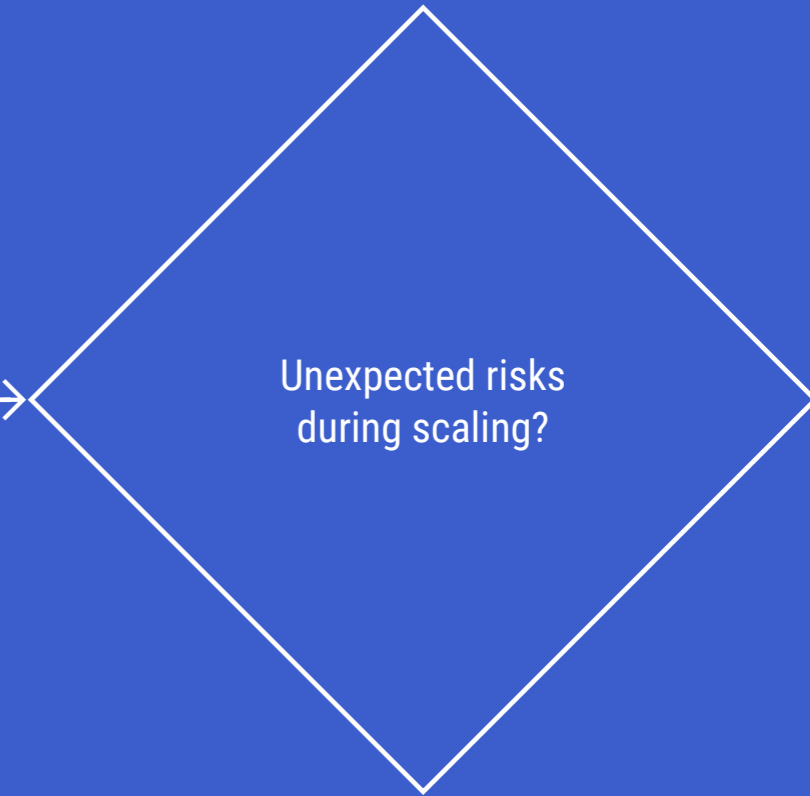
**TRAIN MINIMAL VIABLE MODEL**  
Submit to third party evaluation. Log with national regulator.



NO

**TRAIN LARGER MODELS ITERATIVELY**  
Train until reaching target size, while submitting checkpoints to 3rd party evaluation and logging with national regulator.

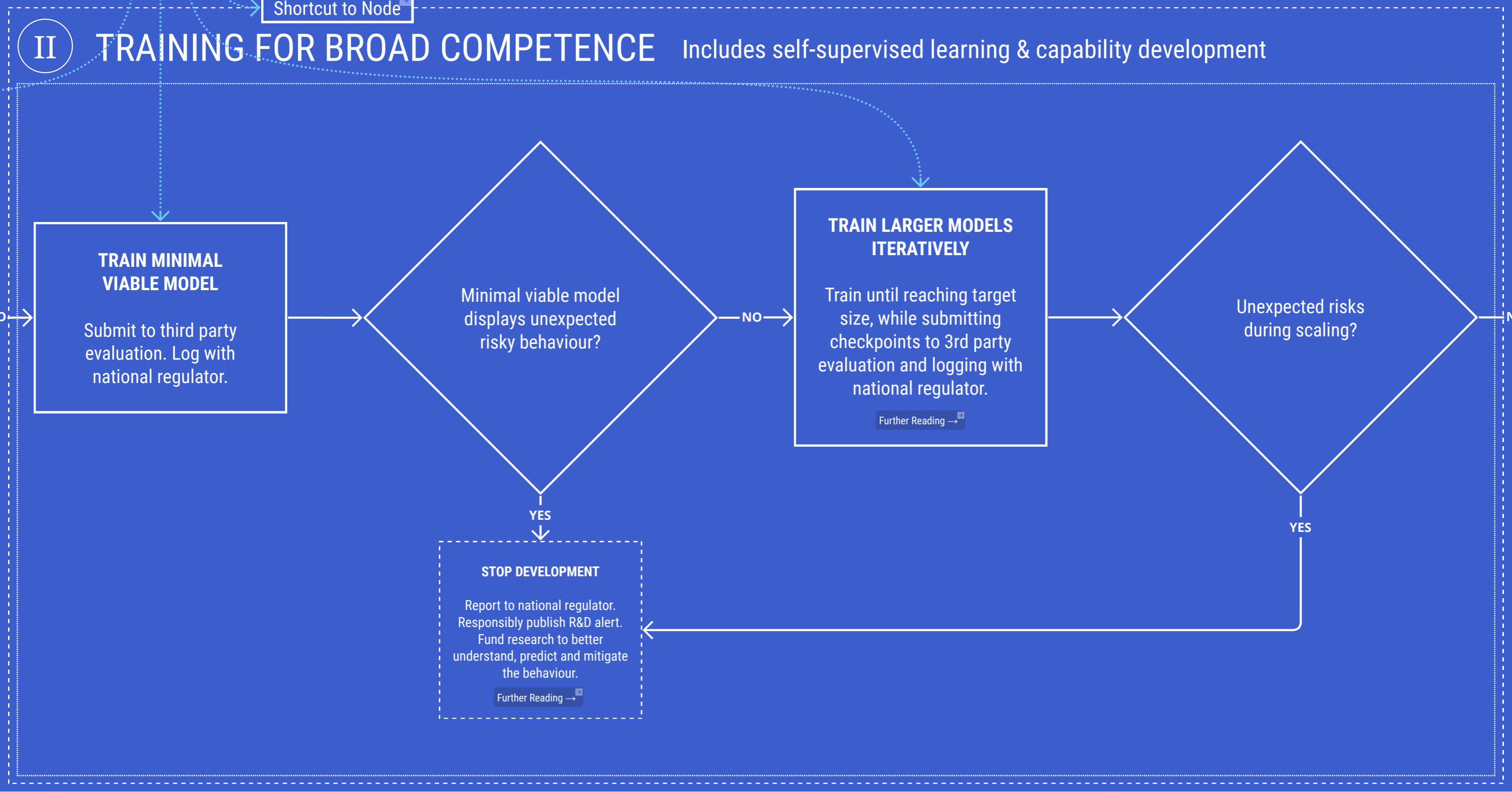
Further Reading →



YES

**STOP DEVELOPMENT**  
Report to national regulator.  
Responsibly publish R&D alert.  
Fund research to better understand, predict and mitigate the behaviour.

Further Reading →

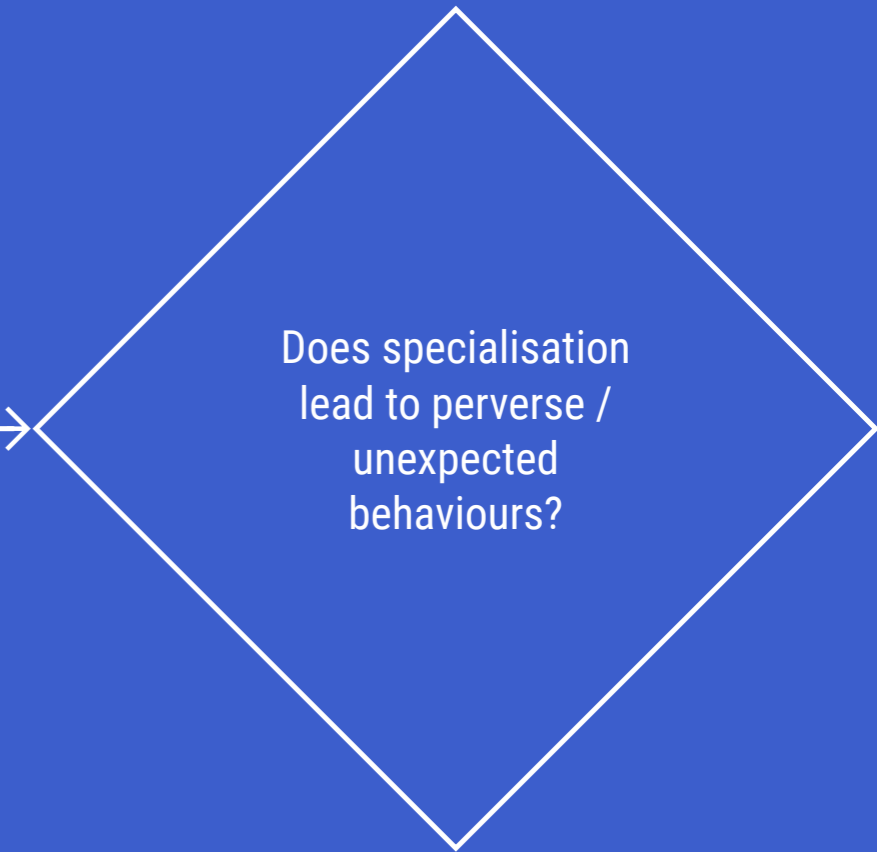


# III SPECIALISATION Training for specific behaviours, goals or tasks

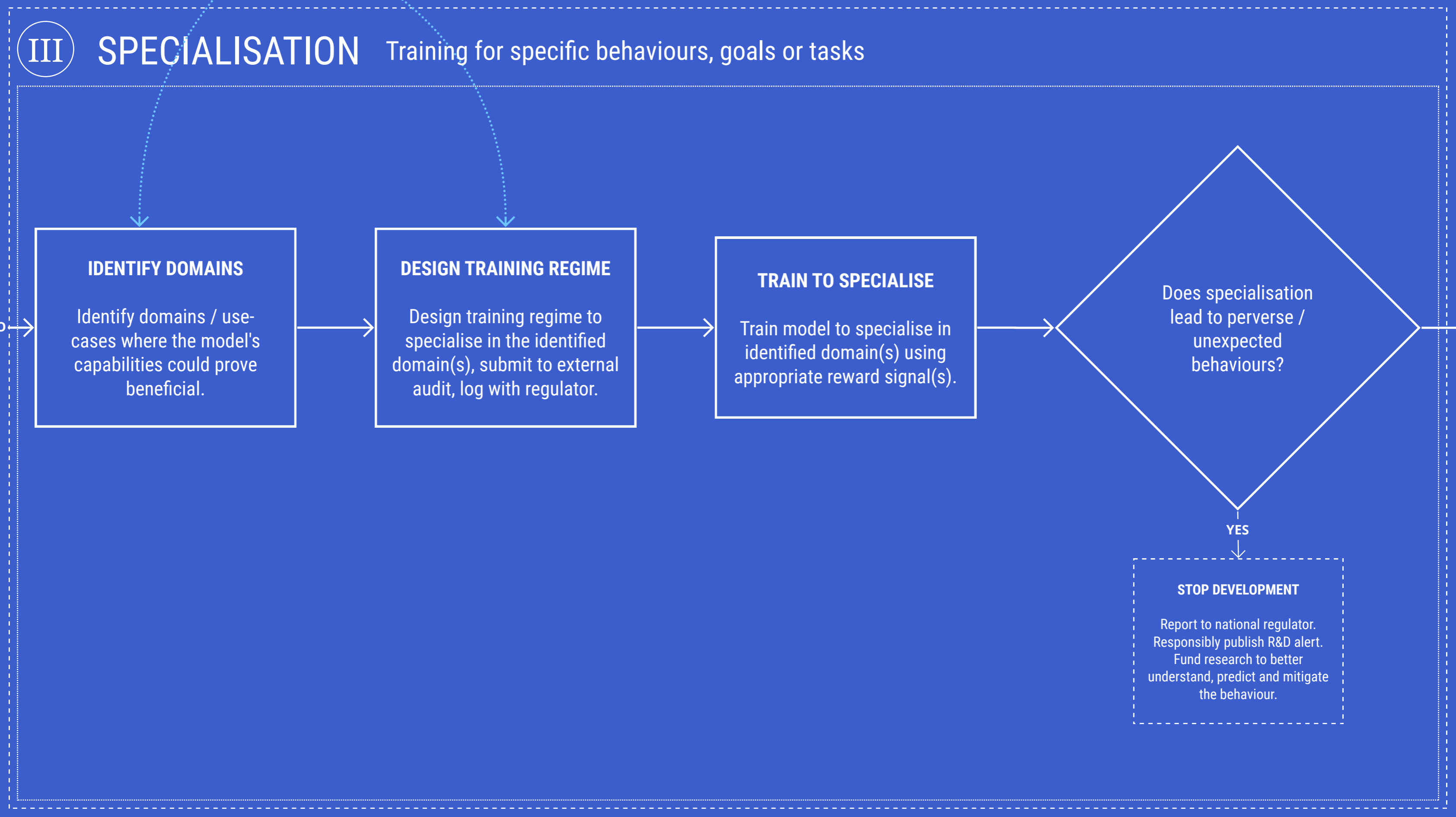
**IDENTIFY DOMAINS**  
Identify domains / use-cases where the model's capabilities could prove beneficial.

**DESIGN TRAINING REGIME**  
Design training regime to specialise in the identified domain(s), submit to external audit, log with regulator.

**TRAIN TO SPECIALISE**  
Train model to specialise in identified domain(s) using appropriate reward signal(s).



**STOP DEVELOPMENT**  
Report to national regulator.  
Responsibly publish R&D alert.  
Fund research to better understand, predict and mitigate the behaviour.



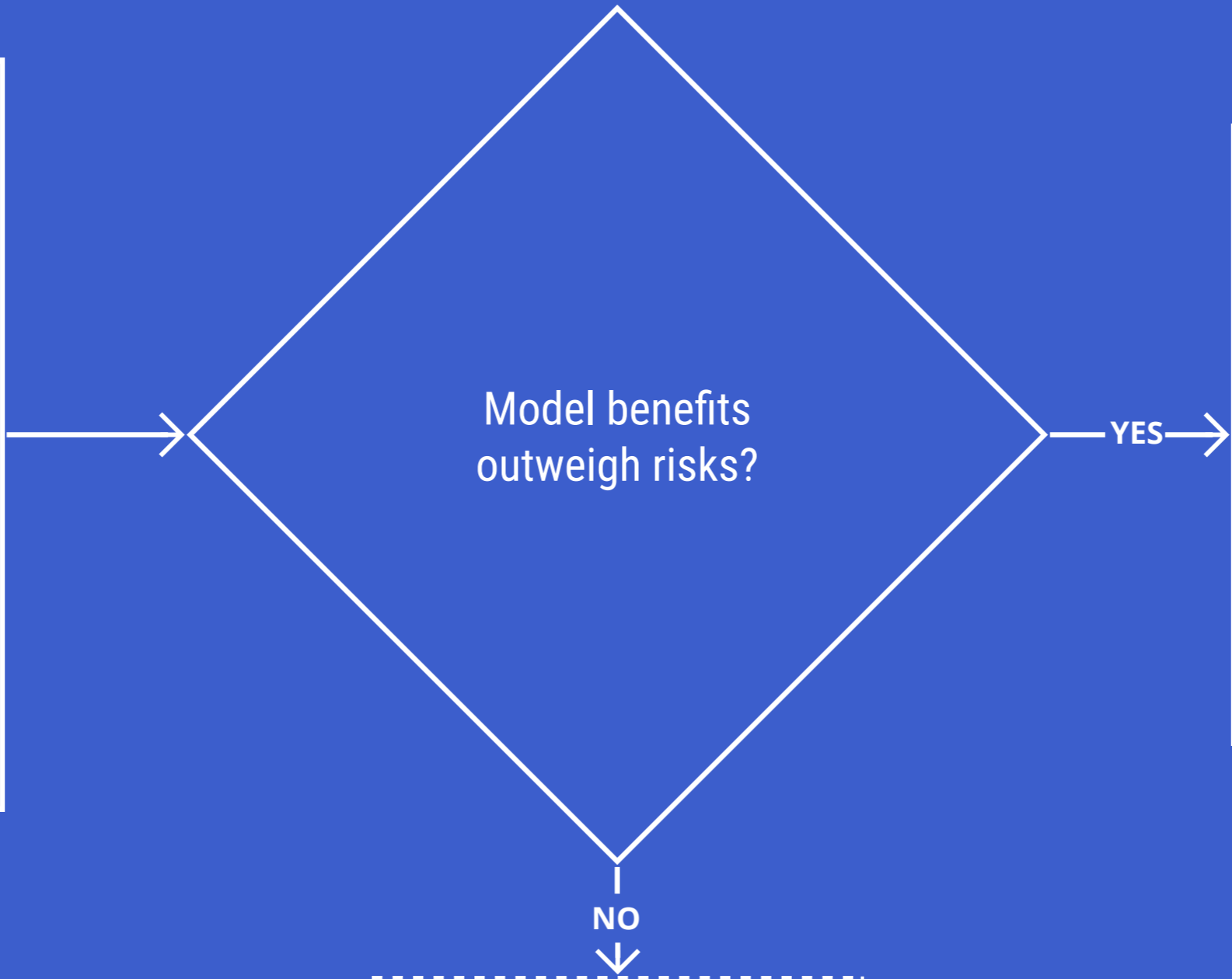


# IV PRE-DEPLOYMENT

**RUN PRE-DEPLOYMENT**

**RED TEAM**  
What harmful behaviours can experts elicit from the model?

**PUBLIC ELICITATION**  
Given demonstrations, what does the public think about this model's potential benefits and risks?



**DESIGN ACCESS MECHANISMS**

Design appropriate access mechanisms (e.g. monitored API). Prepare model card. Log everything with national regulator.

[Further Reading →](#)

**STOP DEVELOPMENT**

Report to national regulator.  
Responsibly publish R&D alert.  
Fund research to better understand, predict and mitigate the behaviour.



# EXCLUSIVITY PERIOD

**PREPARE AND RELEASE REPORT**  
Prepare and release research paper / technical report while mindful of misuse potential  
[Further Reading →](#)

**ROLL OUT GRADUALLY**  
Monitor for misuse and unexpected behaviour.

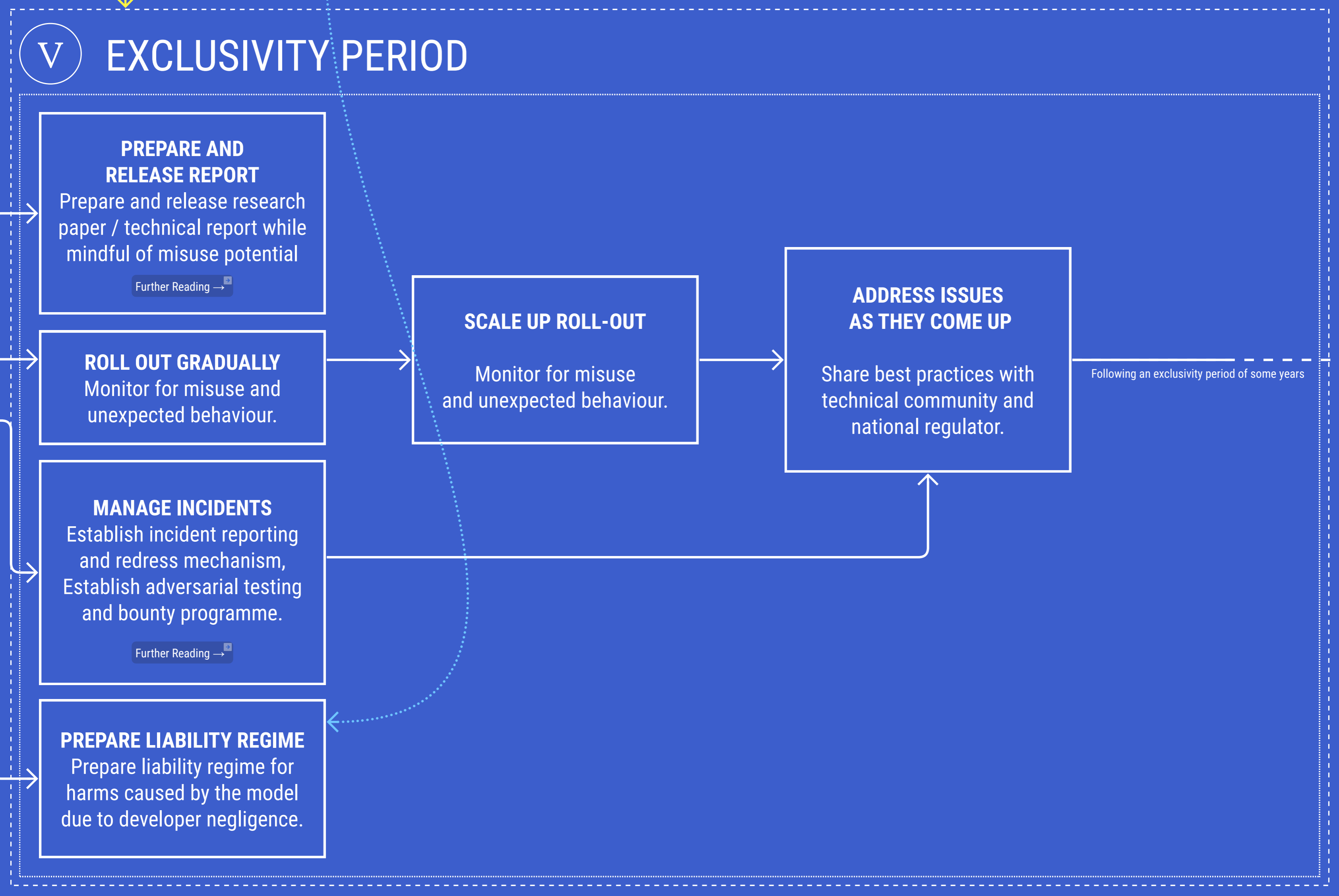
**MANAGE INCIDENTS**  
Establish incident reporting and redress mechanism, Establish adversarial testing and bounty programme.  
[Further Reading →](#)

**PREPARE LIABILITY REGIME**  
Prepare liability regime for harms caused by the model due to developer negligence.

**SCALE UP ROLL-OUT**  
Monitor for misuse and unexpected behaviour.

**ADDRESS ISSUES AS THEY COME UP**  
Share best practices with technical community and national regulator.

Following an exclusivity period of some years



# VI PUBLIC DOMAIN

