

- MISSION DURATION
1.94 SOL (2 DAYS)

- LAUNCH DATE
MAY 31, 2020 00:00:00 CET

PANDORA

EPIDEMIC — EMERGENCE (MONITOR).

PANDORA

NASA SPACE APPS CHALLENGE

NASA
COVID-19 MISSION

- OPERATOR
PANDORA TEAM

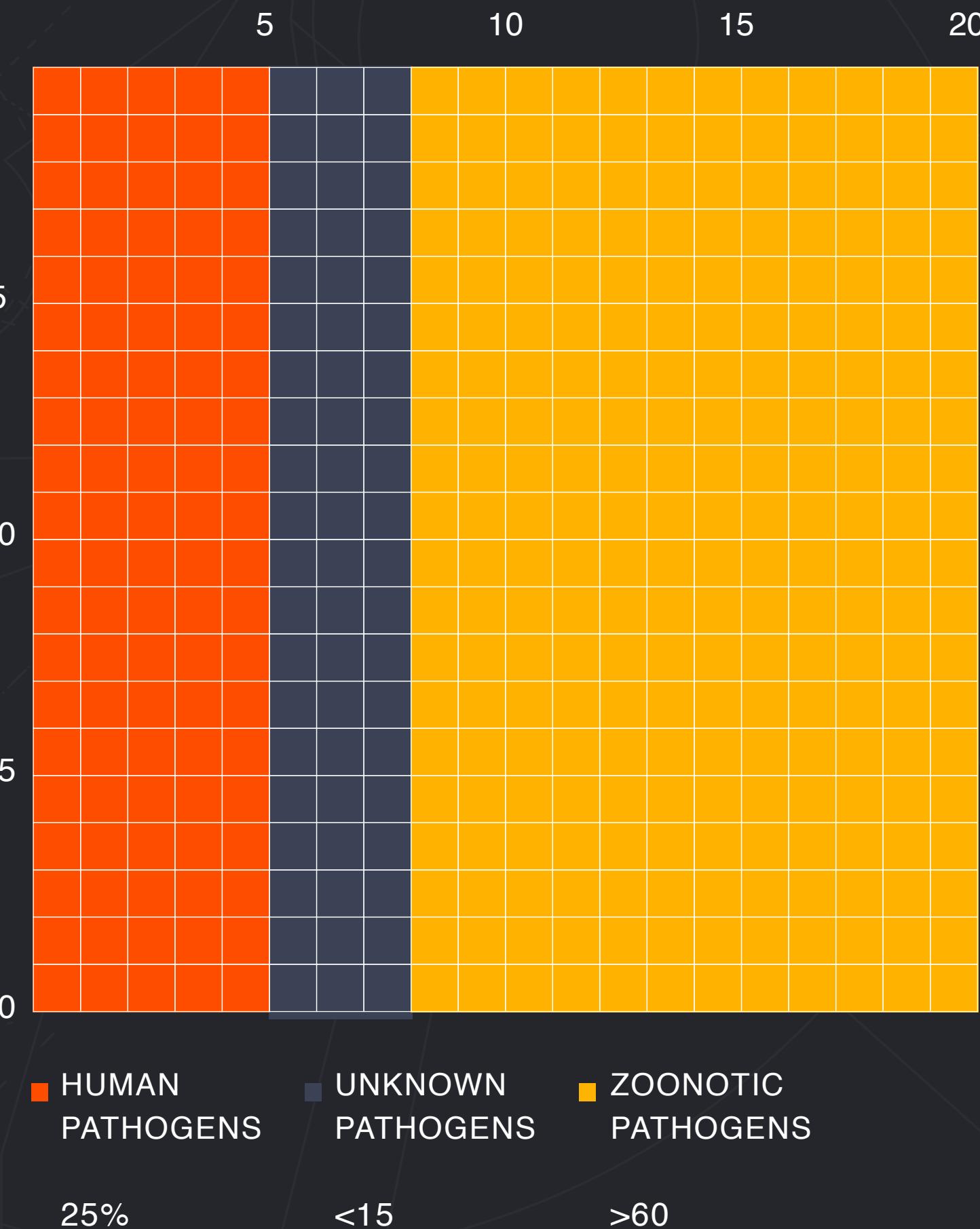
The Challenge

The battle for evolution is the starker battle: **60% of the roughly 400 emerging infectious diseases are zoonotic**, and this figure is just increasing. COVID-19 has reminded the world we are just one step away from being caught by microbial evolution. Historically, the emergence of new epidemics has caused significant human and socioeconomic burden.

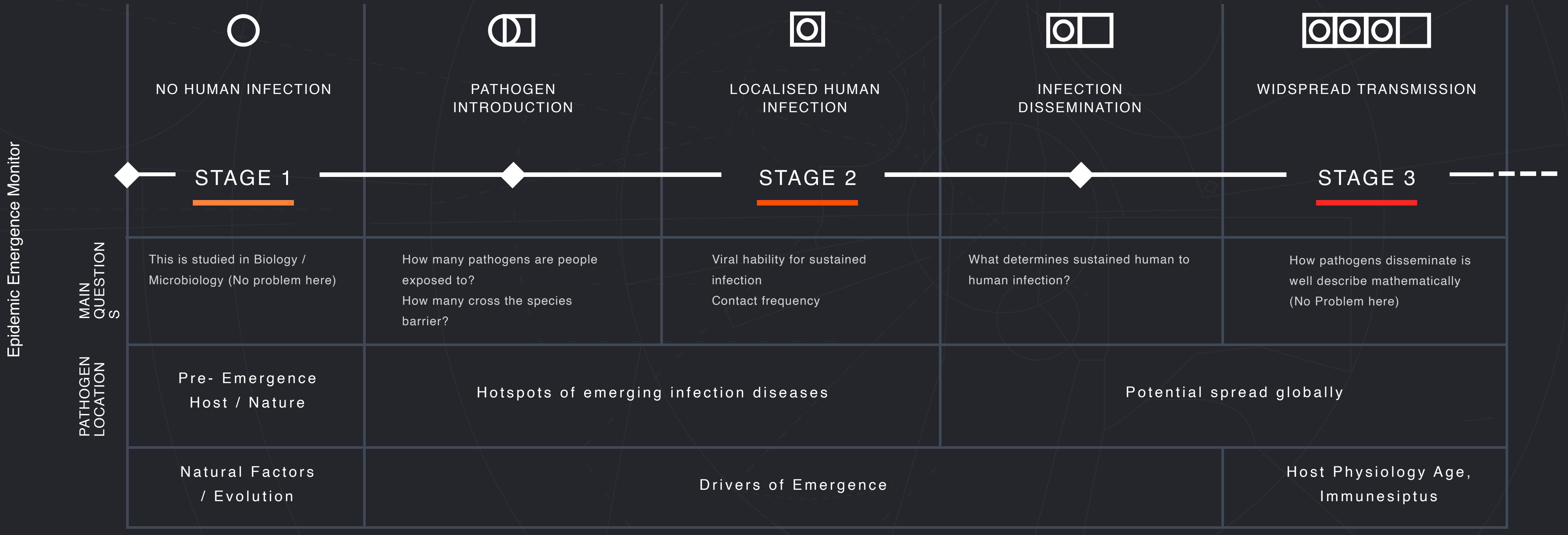
1. Integrating the factors influencing the emergence of new epidemics is key for prevention. **How can we monitor these?**
2. The increasing number of new diseases largely correlates with antropogenic changes. **What can we do about it?**
3. Global collaboration for predicting new epidemics and protecting human beings is essential. **How can we enable it?**

EMERGING PATHOGEN (~400)

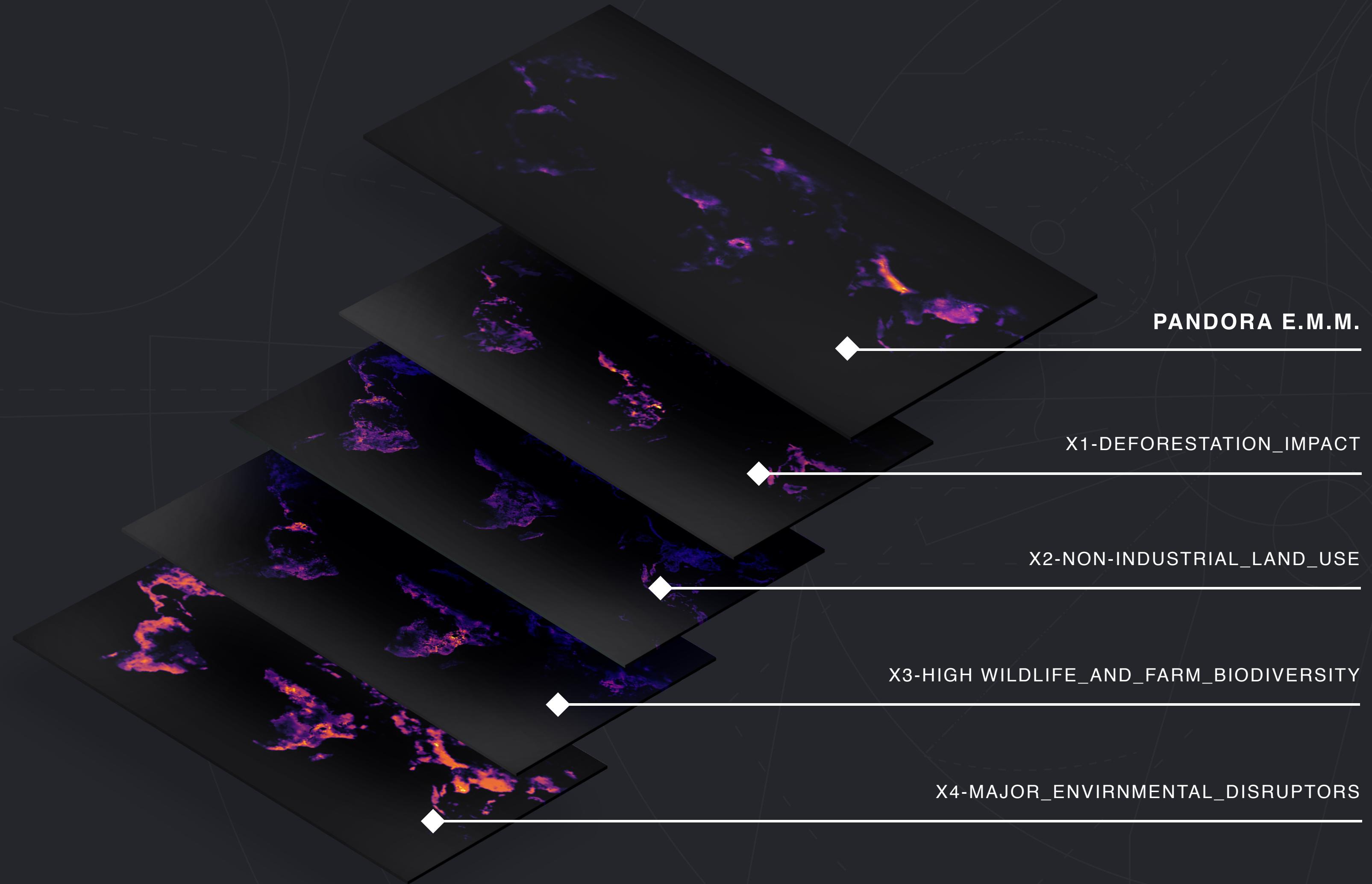
CAPACITY TO EXPLOIT NEW ROUTES OF TRANSMISSION



Epidemic Stages



THIS IS WHERE PANDORA'S E.M.M. MATTERS



The E.E.M.

Space-based assets for land cover, deforestation, fires, and floods have been combined to other global-scale datasets, such as mammalian biodiversity, population density, and wet markets location in order to compose a world map of the risk of zoonotic-origin epidemic emergence.

EPIDEMIC — EMERGENCE (MONITOR).

- ◆ Real time World wide Epidemic Monitoring
- ◆ Global Satellite data, to be one step ahead.
- ◆ Understand the drivers for emergence today, be prepared for tomorrow.



PREDICT - PROTECT - PANDORA

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