



# Space as a driver for socio-economic sustainable development

## Designing space policies in emerging countries: main challenges

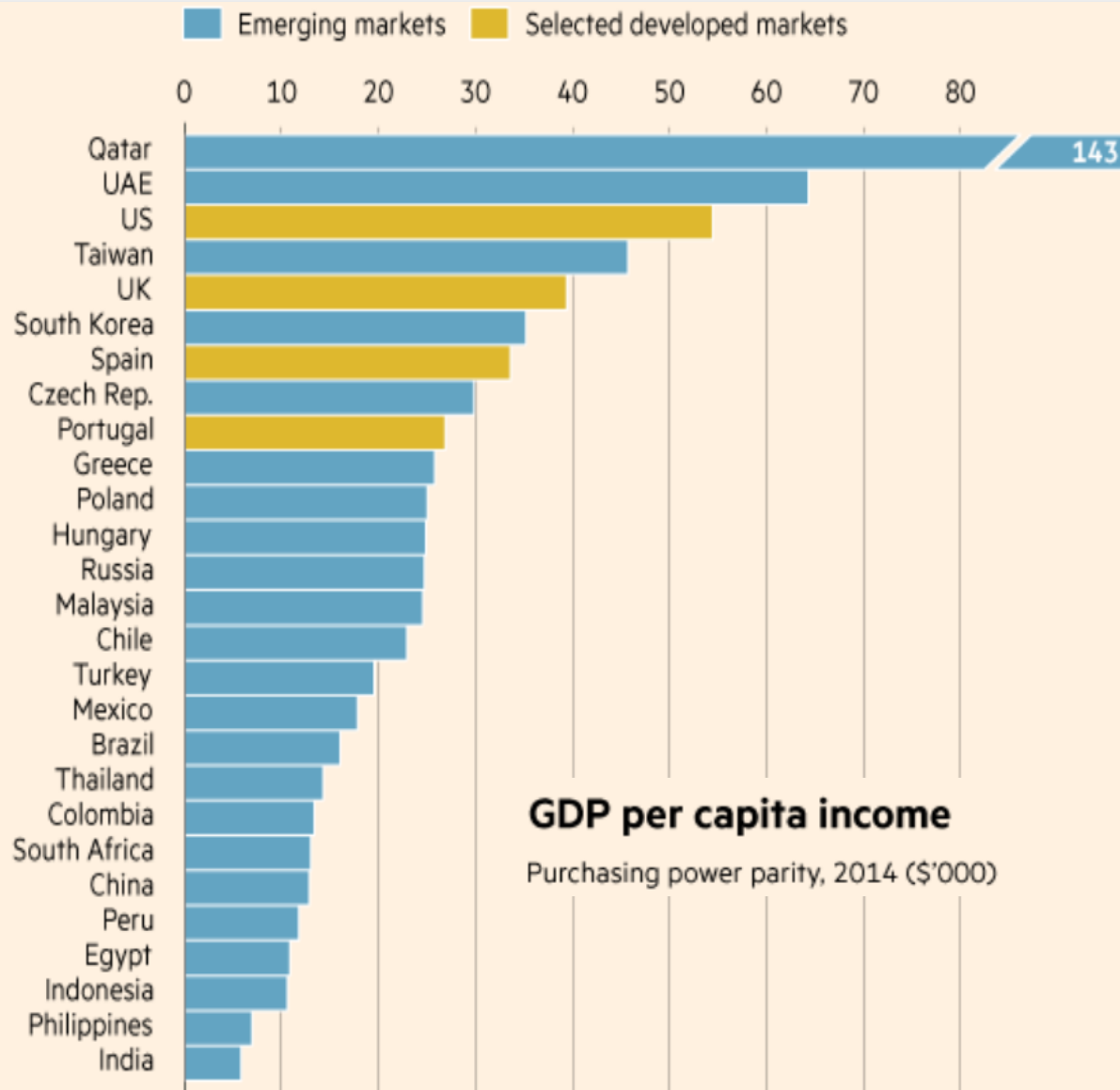
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23<sup>rd</sup> November 2016



Emerging and  
developed  
markets



Source: IMF

FT



(Space)  
emerging  
countries

 **SUSTAINABLE DEVELOPMENT GOALS**

<b>1</b> NO POVERTY 	<b>2</b> ZERO HUNGER 	<b>3</b> GOOD HEALTH AND WELL-BEING 	<b>4</b> QUALITY EDUCATION 	<b>5</b> GENDER EQUALITY 	<b>6</b> CLEAN WATER AND SANITATION 
<b>7</b> AFFORDABLE AND CLEAN ENERGY 	<b>8</b> DECENT WORK AND ECONOMIC GROWTH 	<b>9</b> INDUSTRY, INNOVATION AND INFRASTRUCTURE 	<b>10</b> REDUCED INEQUALITIES 	<b>11</b> SUSTAINABLE CITIES AND COMMUNITIES 	<b>12</b> RESPONSIBLE CONSUMPTION AND PRODUCTION 
<b>13</b> CLIMATE ACTION 	<b>14</b> LIFE BELOW WATER 	<b>15</b> LIFE ON LAND 	<b>16</b> PEACE, JUSTICE AND STRONG INSTITUTIONS 	<b>17</b> PARTNERSHIPS FOR THE GOALS 	



Space



Natural  
resources



Economy



Technology







**Where do emerging countries fall in this equation ?**





# Awareness of full impacts and benefits of space activities

## At a Public Level

- There is a somewhat **unstructured view of outer space benefits for national development** – some ideas, and initial projects but no full breadth awareness
- There is **no view that connects space activities with the overall and sectorial goals of the country**
- There is sometimes a **disconnection between what the country can achieve and its aspirations**

## At the population / civil society level

- **No understanding of the role of outer space in day to day life**
- **No effective use of space products** and applications especially in remote rural areas



# Awareness of institutions, initiatives and treaties

## International Level

- There is **no clear vision of the main international bodies dealing with space affairs**, from the UN to other relevant intergovernmental organizations
- There is **no awareness of the principles and legal impacts of space activities** (from registry to liability, including responsibility, sustainability and even “peaceful uses of outer space”)

## Continental and regional level

- In certain situations, there is **no awareness of the work being done in space related matters at the continental/regional level**





# Coordination between...

## National competent entities

- Many countries lack **an effective cooperation / dialogue among the different public stakeholders with a role in space activities or that benefit from space activities**
- This leads to difficulties in achieving a **space policy and goals that are acceptable to all and fit for all**

## Different goals and objectives

- Lack of coordination between competent entities may also lead to **duplication of efforts in achieving certain goals**
- In fact, one **single investment/project in space may have benefits that extend to all areas of a State's activity**



# Capacity of...

Public stakeholders/  
Users of space  
services and products

- Typically there are not enough trained and qualified human resources to:
  - Structure space activities at a national level
  - Be a part of international, continental or regional initiatives and projects
  - Effectively use space services and products

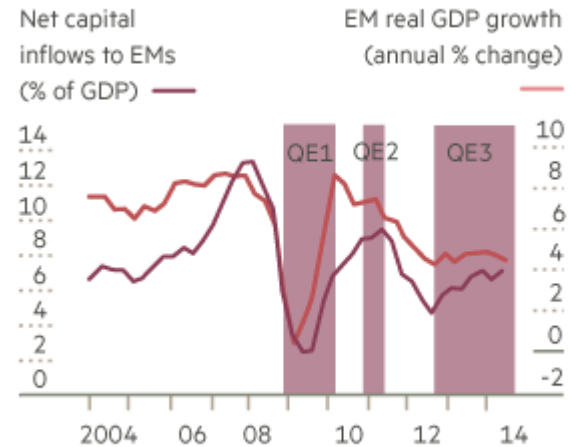




# Financing space activities

- Many of these countries deal with challenges relating with obtaining financing for their activities
- Obtaining financing for space activities is an additional challenge

## Emerging markets and QE



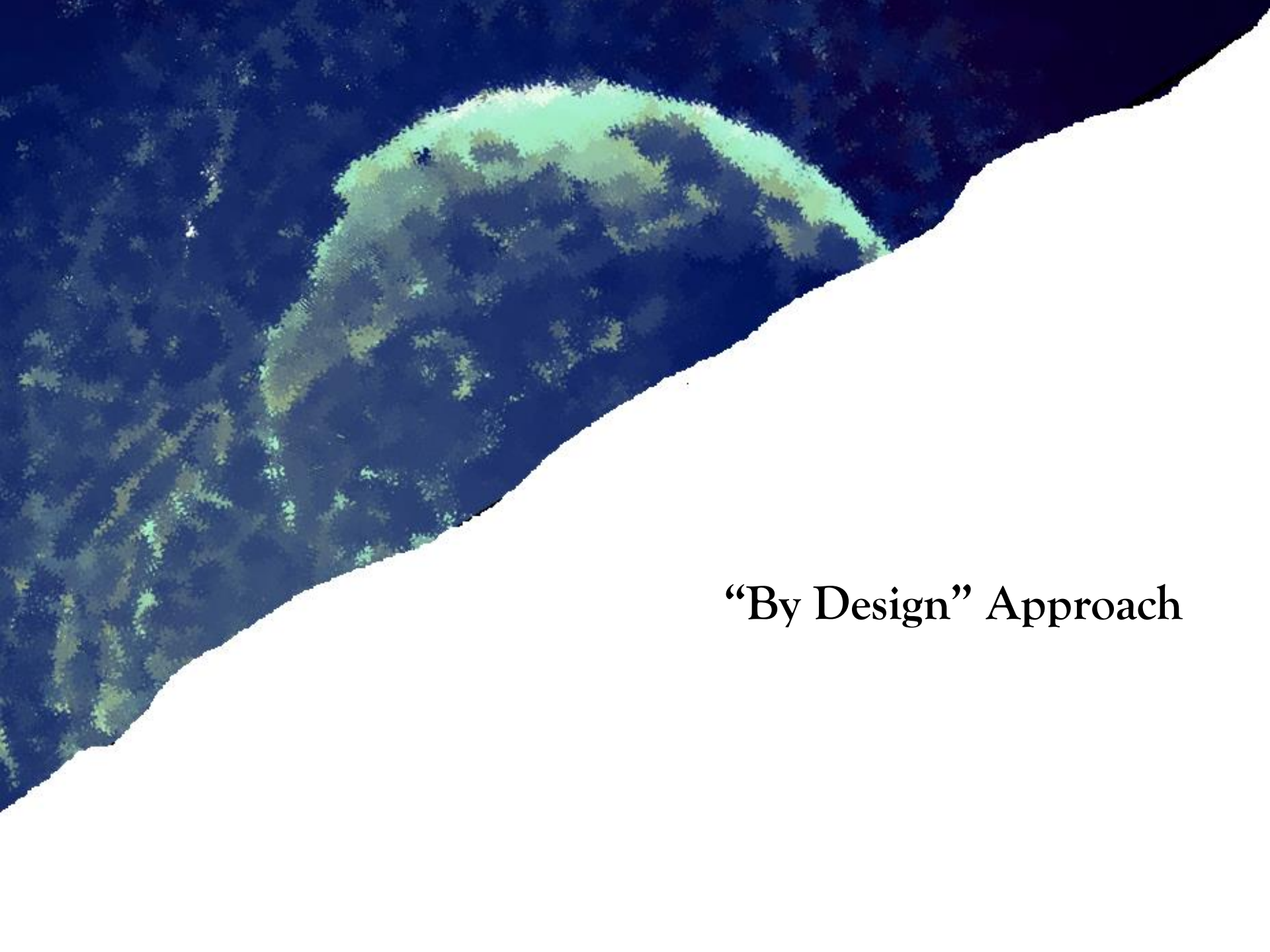
Source: Thomson Reuters Datastream

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**How to tackle these challenges at a national and international level ?**





“By Design” Approach



# Importance of space policy for emerging countries

- Structure and bring together all stakeholders required for the development of space activities in the country
- Define and allocate actions and responsibilities
- Shows that the country is committed to the development of space activities (confidence building tool for emerging countries to foster dialogue)



Coordination

“By design approach”

Capacity  
building

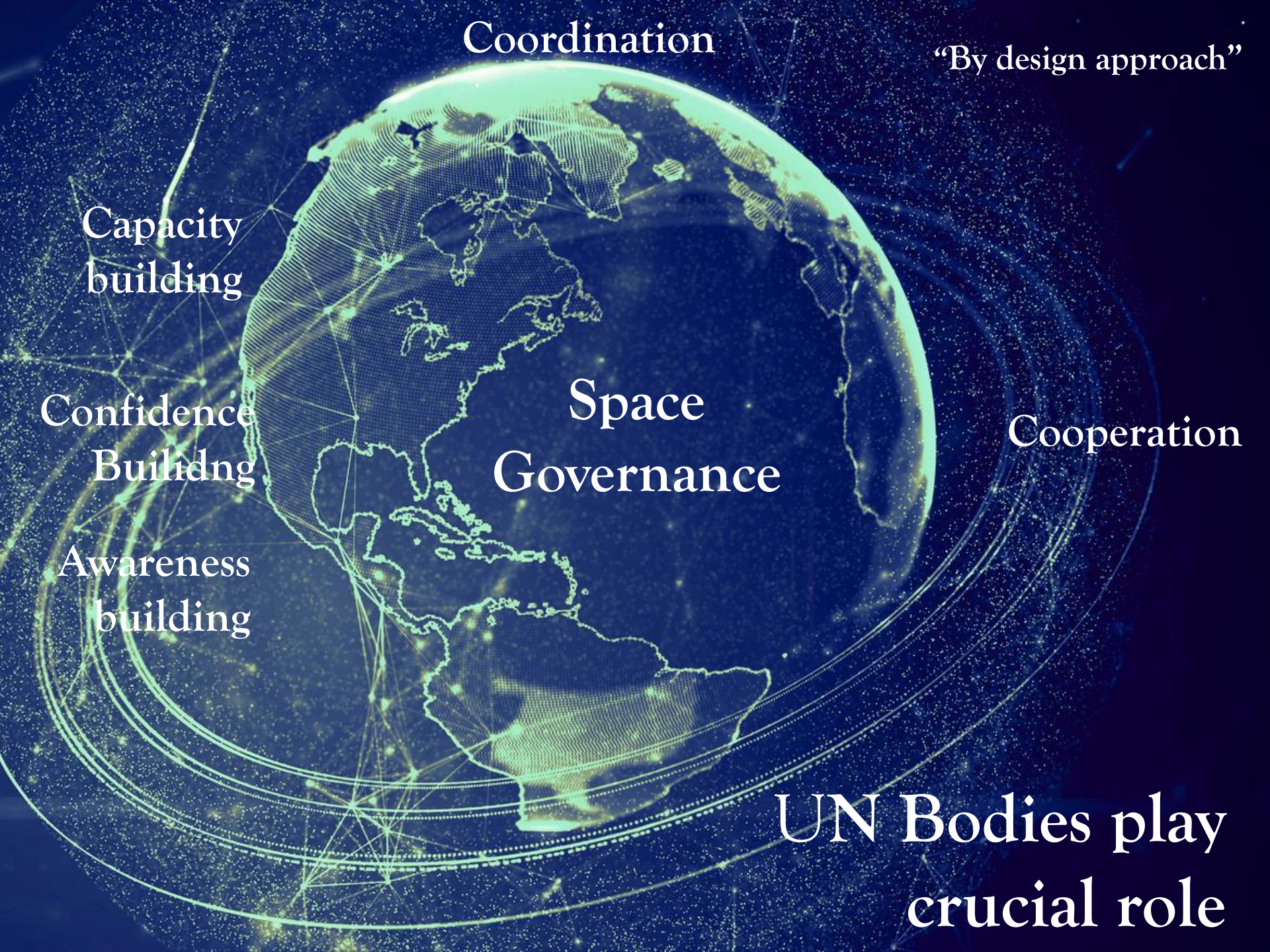
Confidence  
Building

Awareness  
building

Space  
Governance

Cooperation

UN Bodies play  
crucial role







# Thank You!

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