Data Visualisation
Why visualise data?

...
“After Bihar, Uttar Pradesh has the highest proportion of stunted children at 46%, followed by Jharkhand (45%), Meghalaya (44%) and Madhya Pradesh (42%). The top five states for wasting are Jharkhand (29%), Gujarat (26%), Karnataka (26%), Madhya Pradesh (26%) and Maharashtra (26%). As far as underweight children are concerned, only Jharkhand (48%) is worse than Bihar, just ahead of Madhya Pradesh (43%), Uttar Pradesh (40%) and Gujarat (40%).”
Top Five And Bottom Five States By % Of Stunted Children

<table>
<thead>
<tr>
<th>State</th>
<th>% of Stunted Children</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bihar</td>
<td>48%</td>
</tr>
<tr>
<td>Uttar Pradesh</td>
<td>46%</td>
</tr>
<tr>
<td>Jharkhand</td>
<td>45%</td>
</tr>
<tr>
<td>Meghalaya</td>
<td>44%</td>
</tr>
<tr>
<td>Madhya Pradesh</td>
<td>42%</td>
</tr>
<tr>
<td>Punjab</td>
<td>26%</td>
</tr>
<tr>
<td>Himachal Pradesh</td>
<td>26%</td>
</tr>
<tr>
<td>Tripura</td>
<td>24%</td>
</tr>
<tr>
<td>Kerala</td>
<td>20%</td>
</tr>
<tr>
<td>Goa</td>
<td>20%</td>
</tr>
</tbody>
</table>

Source: NITI Aayog
Note: States in red colour are in the bottom five and states in green are the top five
● **Contextualise data**

● **Comparisons**, patterns, correlation

● To break the text flow

● **What raw data looks like**

● **What it needs to be turned into**
Keep in mind
- The story
- The characters
- The rules
- The colours
Types of visualisation...
- Line graph
- Bar / Column graphs
- Combination
- Maps
- Scatter plots
Infographics

https://infogram.com/app/#/edit/ed987bc8-aeed-4d0a-a068-c690698b642b
https://dashboard.visme.co/v2/
https://infogram.com/pmay_-_urban-1h8j4xwrj8gp2mv?live
Majority Of Dalits Are Farm Labourers
Disasters often destroy all opportunities for daily wage work

71% of Dalits work as farm labourers

Source: Census 2011

Poor families are not willing to spend large amounts of their monthly incomes on LPG refills

TOTAL MONTHLY INCOME OF FAMILY

- Poor families are willing to spend 4% of their monthly income on LPG refills
- But refill cylinders at market price cost 25% of their monthly income

Sources: IndiaSpend Ground Report, Collaborative Clean Air Policy Centre
India's Restoration Efforts Are Leaving Out Most Of Its Degraded Land

So far, India has pledged to restore only 1.5% of the country's total land area by 2030.

Geographical area of India

- 70.68% Not Degraded
- 29.32% Degraded

1.5% Targeted For Restoration

Why India Must Improve Its Management Of Water

India has less water available for each person than most countries in the world.

Per Capita Availability Of Water - India vs Lower Middle-Income Countries

- Lower Middle-Income Countries (Average): 3013 cubic metre
- India: 1544 cubic metre

Sources: Press Information Bureau, Government of India
Indian Space Research Organisation
Source: World Bank Data
NDTV
As India’s climate warms, extreme weather, such as intense rain and floods, is predicted to worsen

India could see a six-fold increase in the population exposed to the risk of severe floods by 2040

- 1971 - 2004: 3.7 million exposed to risk of flooding
- 2040: 25 million exposed to risk of flooding

Source: Science Advances Journal
Visualisation Tools
• Infogram
• Datawrapper
• Tableau Public
• Flourish
• Illustrator/Inkscape
Exercise
Thank You!