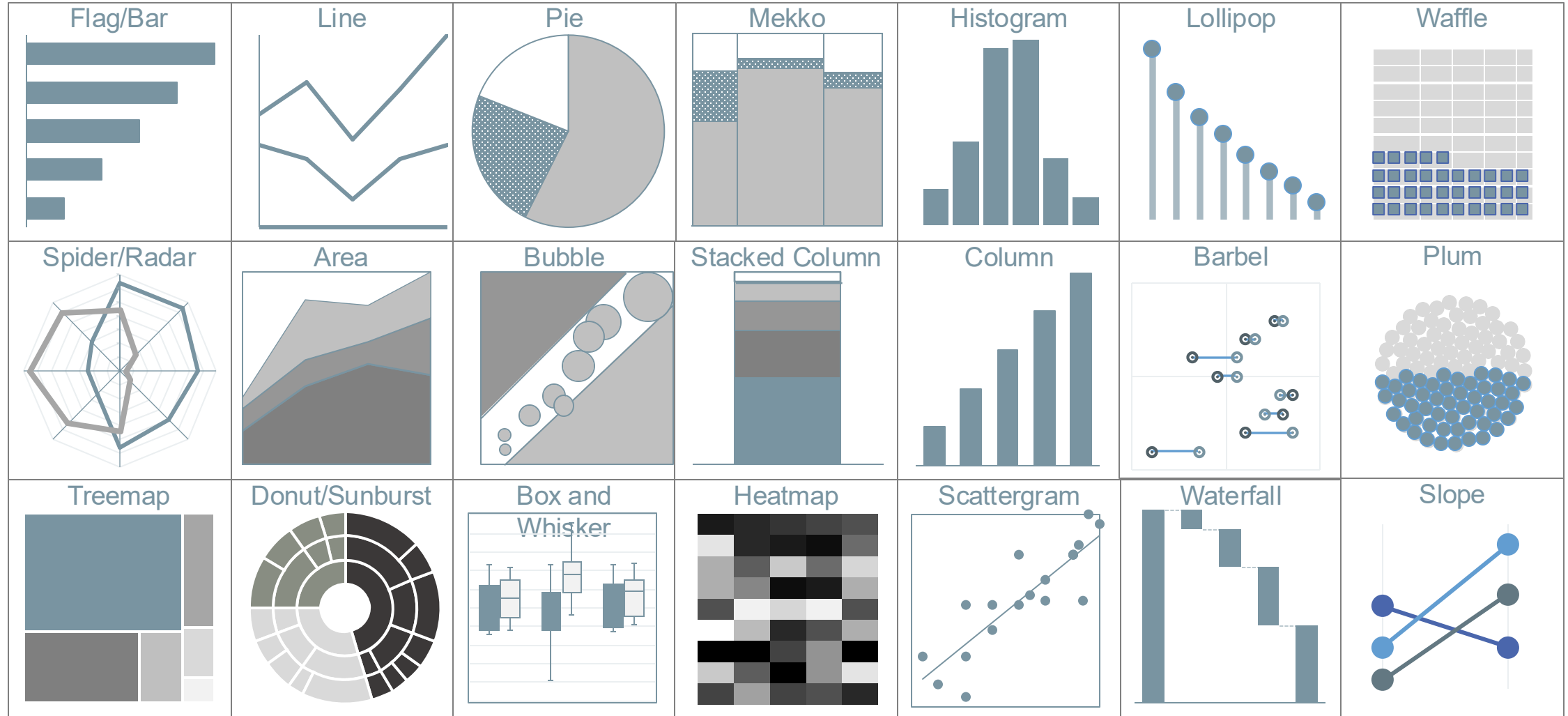


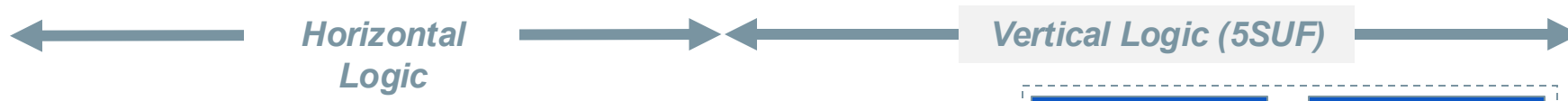
# Chart Selection Framework

Updated Cheat Sheet for Chart Selection

Updated 2025

# Definition and Illustration of the Family of Charts



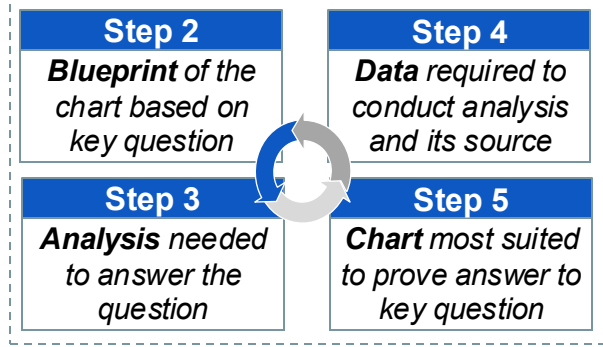


The main issue derived from the strategic objective or the problem

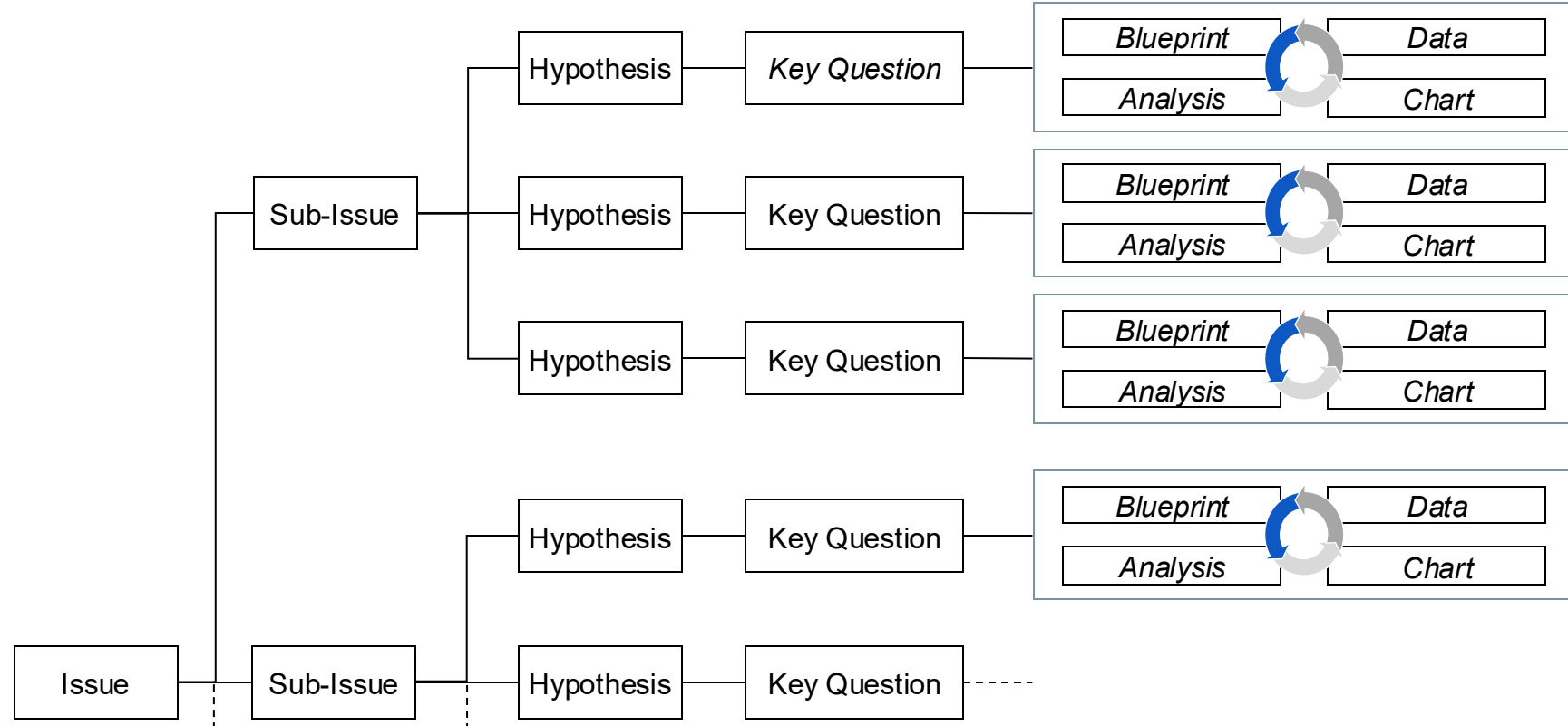
The different sub-issues that stem out of the main issues

Best-guess hypothesis

**Step 1**  
**Key Question**  
*that leads to answers that prove hypothesis*



**Iterative Steps**



TV▶	Static: Single Point in Time				Trending: Changing over Time	
MA▼	1 Variable	2 Variable	3 Variable	4+ Variable	1 Variable	2+ Variables
Comparison	<ul style="list-style-type: none"> <li>Flag</li> <li>Lollipop</li> <li>Waffle</li> <li>Plum</li> </ul>	<ul style="list-style-type: none"> <li>Multi flags</li> <li>Heatmap</li> <li>Waffle</li> <li>Plum</li> </ul>	<ul style="list-style-type: none"> <li>Mekko</li> <li>Multi flags</li> <li>Spider/Radar</li> <li>Heatmap</li> <li>Waffle</li> <li>Plum</li> </ul>	<ul style="list-style-type: none"> <li>Mekko</li> <li>Multi flags</li> <li>Spider/Radar</li> <li>Heatmap</li> </ul>	<ul style="list-style-type: none"> <li>Line</li> <li>Column</li> <li>Slope</li> <li>Barbell</li> </ul>	<ul style="list-style-type: none"> <li>Line</li> <li>Column</li> <li>Flag</li> <li>Slope</li> <li>Barbell</li> </ul>
Relationship	<ul style="list-style-type: none"> <li>Scattergram</li> </ul>	<ul style="list-style-type: none"> <li>Scattergram</li> </ul>	<ul style="list-style-type: none"> <li>Bubble</li> <li>Surface/3D Scattergram</li> <li>Barbell</li> </ul>	<ul style="list-style-type: none"> <li>3D Bubble</li> <li>Barbell</li> </ul>	<ul style="list-style-type: none"> <li>Scattergram</li> <li>Barbell</li> </ul>	<ul style="list-style-type: none"> <li>Bubble</li> <li>Barbell</li> </ul>
Frequency/ Distribution	<ul style="list-style-type: none"> <li>Histogram</li> <li>Single line</li> <li>Column</li> </ul>	<ul style="list-style-type: none"> <li>Multi Histograms</li> <li>Multi line</li> <li>Scattergram</li> <li>Box and Whisker</li> </ul>	<ul style="list-style-type: none"> <li>Multi histograms</li> <li>Multi line</li> <li>Bubble</li> <li>Box and Whisker</li> </ul>	<ul style="list-style-type: none"> <li>Box and Whisker</li> </ul>	<ul style="list-style-type: none"> <li>Box and Whisker</li> </ul>	<ul style="list-style-type: none"> <li>Box and Whisker</li> </ul>
Breakdown/ Composition	<ul style="list-style-type: none"> <li>Pie</li> <li>Waterfall</li> <li>Stacked Column</li> <li>Treemap</li> <li>Waffle</li> <li>Plum</li> </ul>	<ul style="list-style-type: none"> <li>Multi-stacked column</li> <li>Multi pie</li> <li>Mekko</li> <li>Donut/Sunburst</li> <li>Waterfall</li> <li>Treemap</li> <li>Waffle</li> </ul>	<ul style="list-style-type: none"> <li>Multi-stacked column</li> <li>Mekko</li> <li>Donut/Sunburst</li> <li>Waterfall</li> <li>Treemap</li> <li>Waffle</li> </ul>	<ul style="list-style-type: none"> <li>Donut/Sunburst</li> <li>Treemap</li> <li>Mekko</li> </ul>	<ul style="list-style-type: none"> <li>Multi pie</li> <li>Stacked Column</li> <li>Waterfall</li> <li>Donut/Sunburst</li> <li>Treemap</li> <li>Mekko</li> <li>Waffle</li> <li>Plum</li> </ul>	<ul style="list-style-type: none"> <li>Area</li> <li>Donut/Sunburst</li> <li>Multi Radar</li> <li>Waterfall</li> <li>Mekko</li> <li>Waffle</li> </ul>
Hierarchy	<ul style="list-style-type: none"> <li>Donut/Sunburst</li> <li>Treemap</li> <li>Histogram</li> </ul>	<ul style="list-style-type: none"> <li>Donut/Sunburst</li> <li>Treemap</li> <li>Mekko</li> <li>Multi histogram</li> </ul>	<ul style="list-style-type: none"> <li>Donut/Sunburst</li> <li>Treemap</li> <li>Mekko</li> </ul>	<ul style="list-style-type: none"> <li>Donut/Sunburst</li> <li>Treemap</li> <li>Mekko</li> </ul>	<ul style="list-style-type: none"> <li>Donut/Sunburst</li> <li>Treemap</li> <li>Mekko</li> <li>Multi histogram</li> </ul>	<ul style="list-style-type: none"> <li>Donut/Sunburst</li> <li>Treemap</li> <li>Mekko</li> </ul>

# Chart Selection Formula

$$\text{Chart Type} = F(T, V, MA)$$

Symbol	Variable	Explanation
T	Time Variant	Is there a time factor, meaning is it static in time or trending over time? The answer is yes or no
V	Number of Variables	Is it a single or multiple variables? The answer is the number of variable, i.e., 1, 2 3 or more
MA	Message Attribute	What is the insight that needs to be shown? i.e., Is it a comparison, breakdown, relationship, distribution or frequency?

