Module 12 Design Problems for Real-Time Operational Dashboards

Problems with real-time operational dashboards

- Too much complexity
- Too many alert conditions
- Alerts that cannot be differentiated
- Overwhelming visuals
- Distracting visuals
- Inappropriate visual salience

Problems with real-time operational dashboards

- Mismatch between information and its visual representation
- Indirect expression of measures
- Not enough context

Information overload or complexity

Impact of too much information or complexity Information that should not be displayed

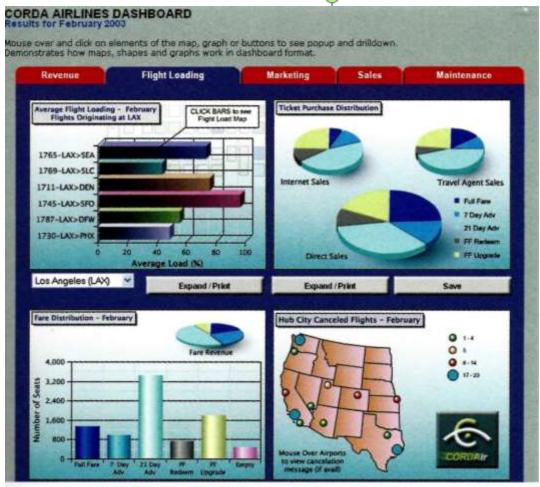


Figure 107: Dashboard with clutter of instructions Source: Information Dashboard Design, Few

Alerts and Visuals

Alerts

- Avoid too many alerts
- Differentiating alerts

Overwhelming and distracting visuals

- Avoid overwhelming visuals
- Best use of color on a dashboard

Appropriate versus excessive use of color

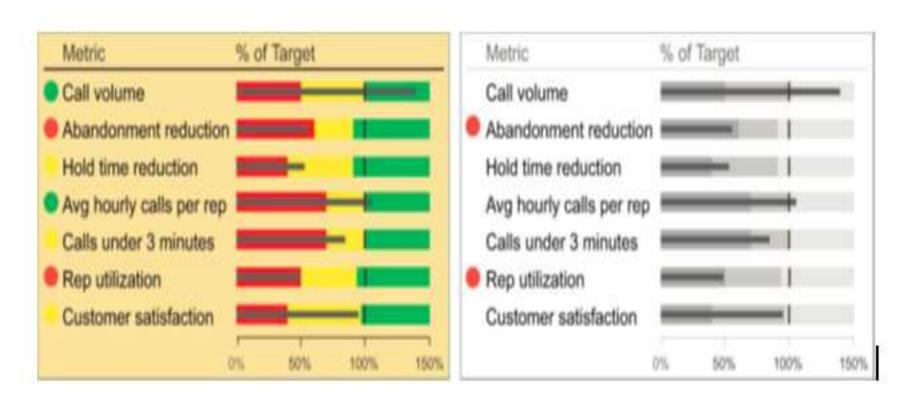


Figure 108: Appropriate versus excessive use of color Source: Dashboard design for real-time situation awareness, Stephen Few

Appropriate versus excessive use of color



Figure 109: Appropriate versus excessive use of color Source: Information Dashboard Design, Few

Avoiding distracting visuals



Figure 110: Inappropriate design for a business dashboard Source: Dashboard design for real-time situation awareness, Stephen Few

Visual salience

Avoid inappropriate visual salience
What to keep in mind when designing a dashboard
Example of inappropriate visual salience

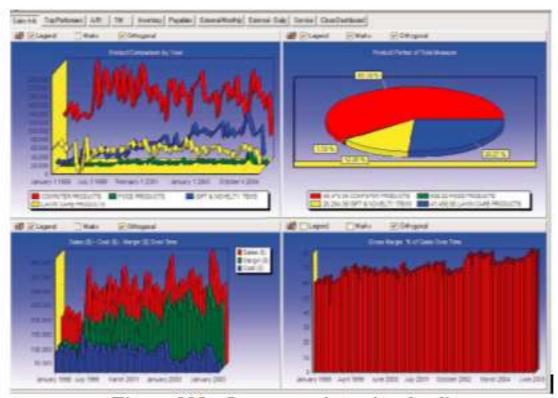


Figure 111: Inappropriate visual salience Source: Dashboard design for real-time situation awareness, Few

Information and its visual representation

Avoid mismatch between information and its visual representation

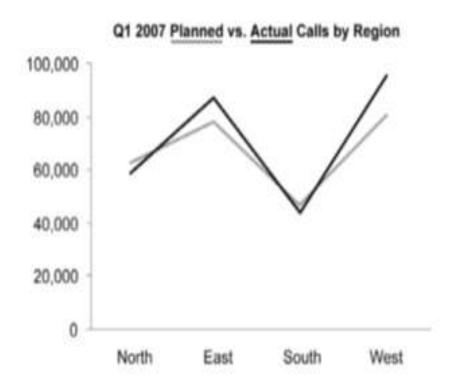


Figure 112: Mismatch between data and its graphical representation Source: Dashboard design for real-time situation awareness, Stephen Few

Information and its visual representation

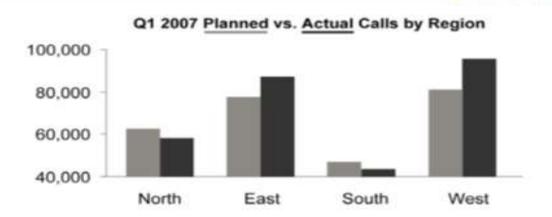


Figure 113: Another view of planned versus actual data Source: Dashboard design for real-time situation awareness, Few

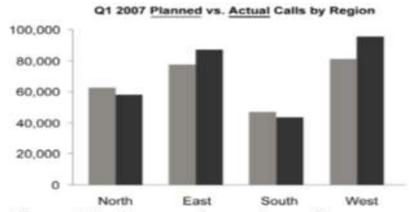


Figure 114: Bar graph starting with a zero scale Source: Dashboard design for real-time situation awareness, Few

Measures and context

Expressing measures indirectly

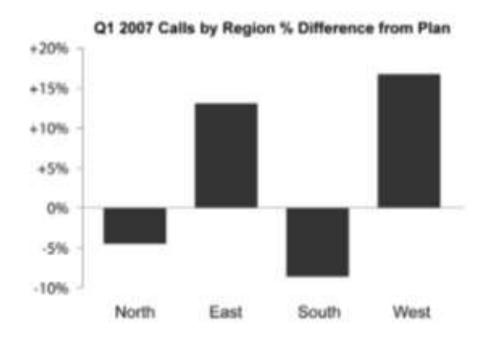


Figure 115: Performance expressed as a percentage Source: Dashboard design for real-time situation awareness, Few

Measures and context

Provide context



Figure 116: Chart with no context Source: Dashboard design for real-time situation awareness, Few



Figure 117: Chart with context Source: Dashboard design for real-time situation awareness, Few

Bullet graph

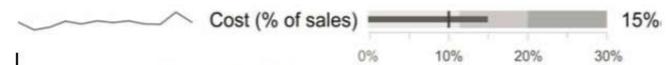


Figure 118: Bullet graph
Source: Dashboard design for real-time situation awareness, Stephen Few

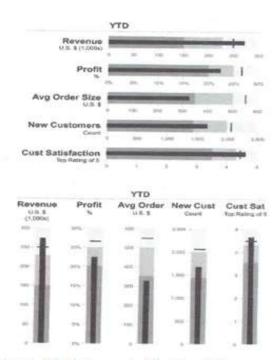


Figure 119: Bullet graph: Horizontal versus vertical Source: Information Dashboard Design, Few

Bullet graph with colors

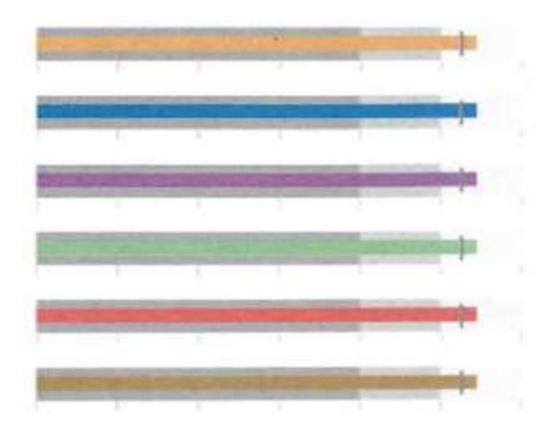


Figure 120: Bullet graph using colors Source: Information Dashboard Design, Few