

CSE-360 Course Project

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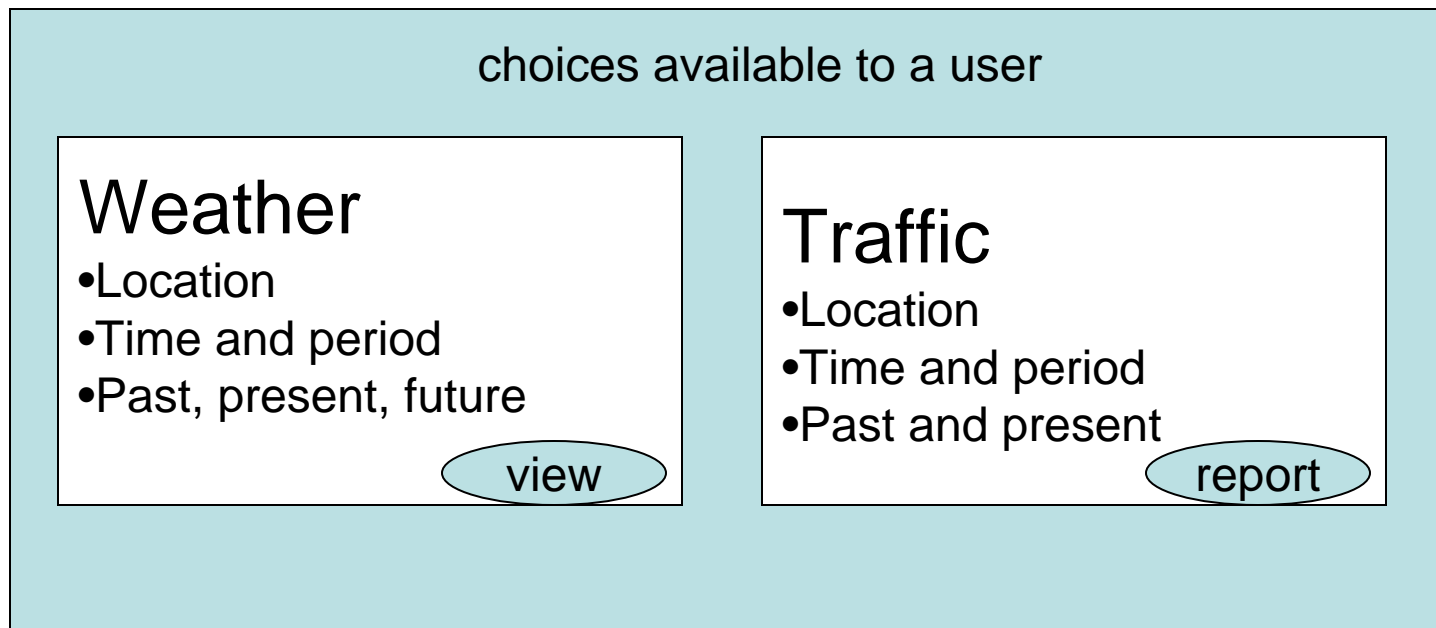
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Software for Pollution & Energy Aware Driving

- Important Traits
 - Information system
 - Interaction among subsystems
 - Multi-user system, but not a distributed system

Profile of a Software Product

- A person can obtain weather and traffic information for a location or a region..



Weather Data

- Input
 - Place, time
- Output
 - Climate

Time/location	temperature	Rain	Etc.

Phoenix Metro Weather

Data displayed

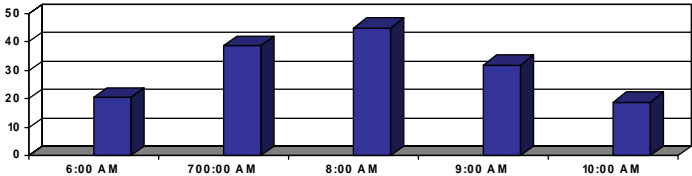
- 5-Day Forecast
 - Low, High
- Almanac
 - Today (low, high)
 - Normal (low, high)
 - Record (low, high)
 - Rainfall (year to date)
- Sunrise
- Sunset

Data may be from

- Tables (record temperature, sunrise/sunset)
- Models (generates data for future days)
- Sensors (measures present data, day, time)

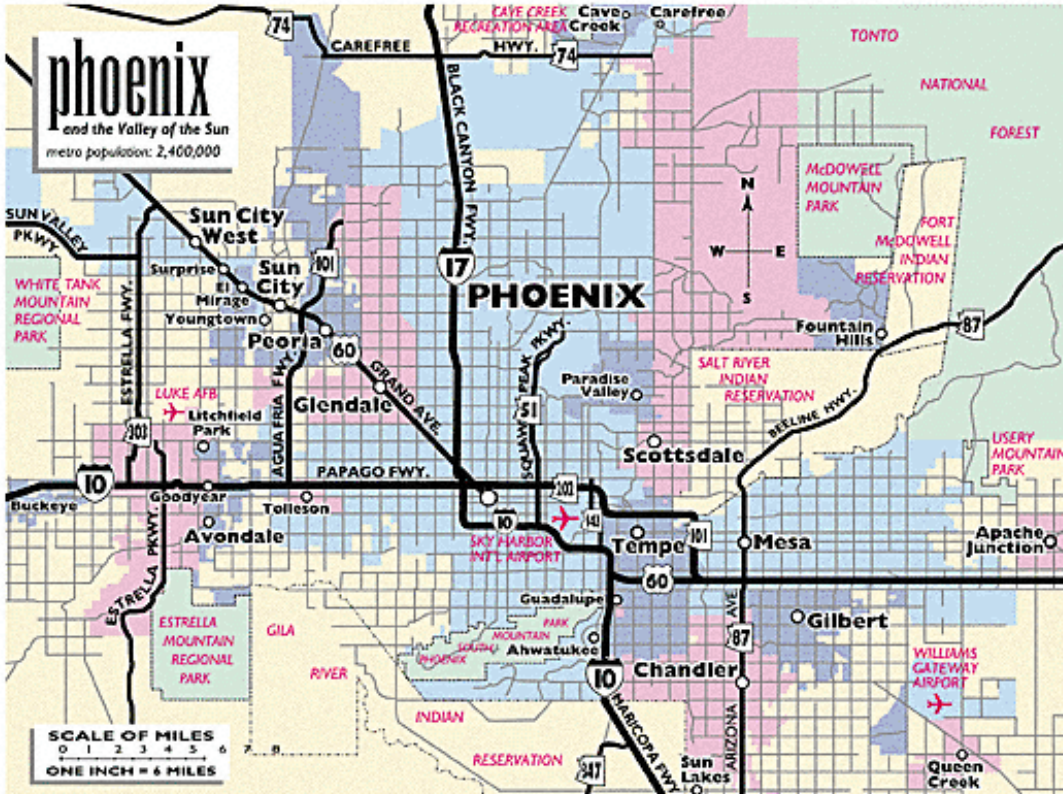
Traffic Data

- Traffic
 - Streets/Highway
 - Date
 - Time



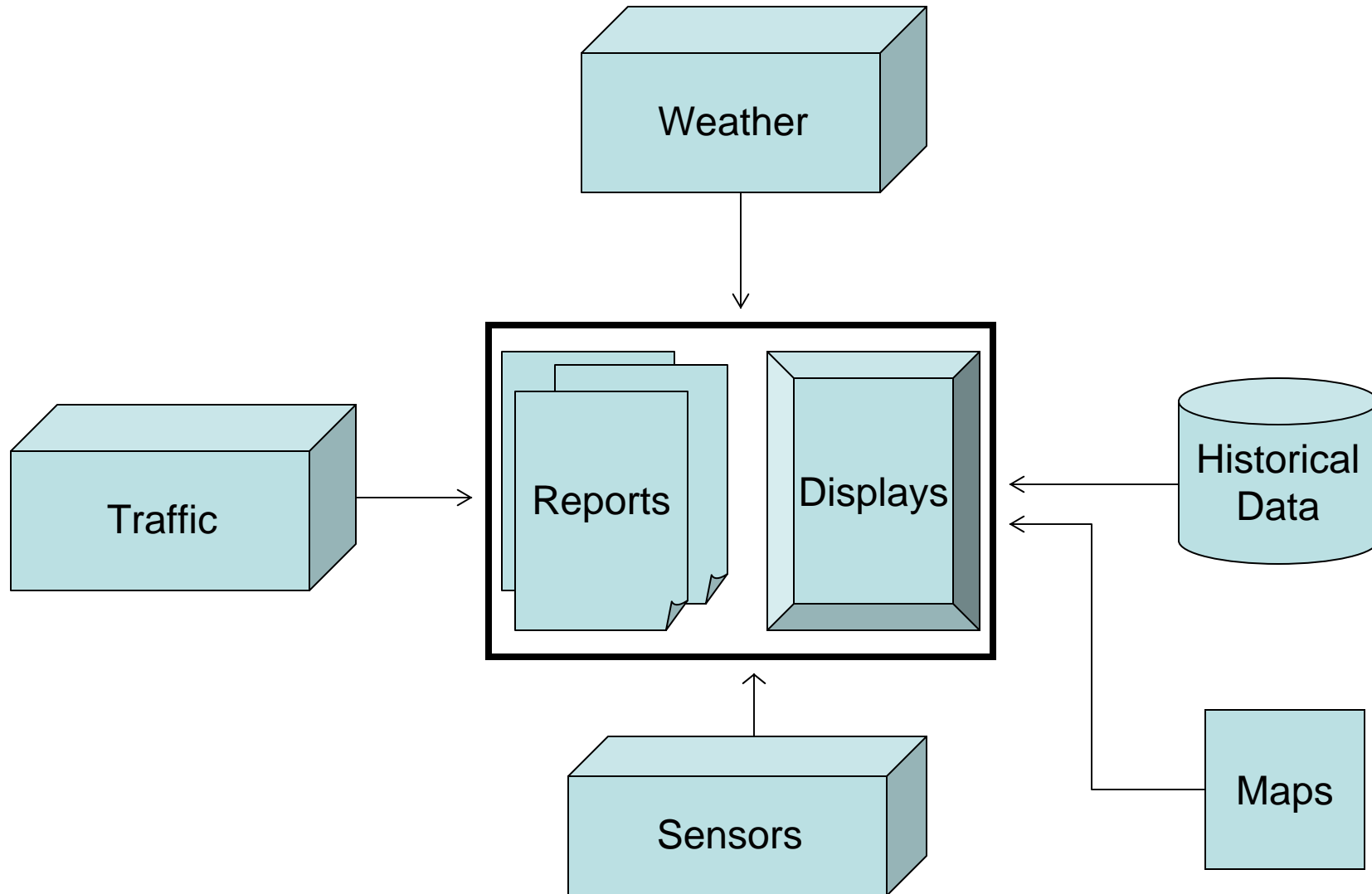
Time/Location	Location	Traffic volume	Etc.

Phoenix Metro Map



Traffic pulse from ABC15 News
<http://www.knxv.com/traffic/traffic.html>

Conceptual System



Some Data Sources

- <http://www.ncdc.noaa.gov/oa/ncdc.html>,
- <http://www.rap.ucar.edu/weather/>
- <http://www.awis.com/>
- <http://www.washingtonpost.com/wp-srv/weather/historical/historical.htm>,
- http://www.washingtonpost.com/wp-srv/weather/longterm/historical/data/tempe_ariz.htm
- <http://www.worldclimate.com/>
- <http://iwin.nws.noaa.gov/iwin/az/az.html>
- <http://ag.arizona.edu/azmet/>
- <http://156.42.96.70/alert/alert.htm>
- <http://stormeyes.org/pietrycha/az.html#txt>
- <http://www.az511.com/>