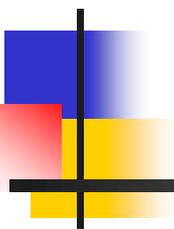


# Job Analysis Data: What's to be Mined?



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# Traditional Job Analysis

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- Task focused
- Asks participants to estimate time over a particular time period
- May also include personality characteristics



# Time and Motion Studies

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- Used early in I/O psychology, now primarily in the realm of industrial engineering
- Extremely valuable
  - Determining the best (most efficient) way to do a task
  - Determining the physical requirements of the task



# This Project

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- Client had a need to determine:
  - Percentage of time spent on the projects
  - Labor dollars spent on the projects



# This Project

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- Constraints
  - Information based jobs
  - Population (~100) spread out geographically
  - Company was fighting against every day tracking of time



# Job Analysis Portion

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- Determined the tasks performed via
  - Job descriptions
  - Regulatory rules/legal decisions
  - Focus groups



# Time and Motion Portion

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- Could not economically observe participants
  - Performance of same job unique based on location
  - A lot of information-based work, so asking about it would affect the time spent on it



# Time and Motion Portion

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- Designed an on-line tool to for participants to capture their time spent in each area
- Time could be captured 24/7



# Time and Motion Portion

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- Smallest increment of time would be 15 minutes
- Make entries same day
- Two 6-week time periods used

# Example

Monday

Choose approximate start/stop time

Describe activity for validation of data

Choose activity from drop-down

	Activity Name	Time Start	Time End
1	Administration	8:00 AM	8:30 AM
2	Providing Support on Financial Issues	8:30 AM	10:00 AM
3	Educating Business and Community Groups on Energy Efficiency and Demand Response	10:00 AM	12:00 PM
4	Lobbying	12:00 PM	1:30 PM
5	Customer Facilitation/Problem Solving	1:30 PM	2:00 PM
6	Corporate Citizenship and Company Representative	2:00 PM	3:00 PM
7	Providing System Operating Support	3:15 PM	3:45 PM
8	Interacting With Media	3:45 PM	4:30 PM
9	Educating Business and Community Groups on Energy Efficiency and Demand Response	4:30 PM	5:00 PM
10	Monitoring: Local	6:30 PM	9:30 PM
11			
12			

	Description
1	Checked e-mail and voice mail.
2	Met with CRE on right-of-way issue.
3	Made presentation to city on SCE's EE/DR programs.
4	Monthly Chamber Governmental Affairs Committee lunch.
5	Handled customer billing issue.
6	Call w/community leaders about applying for SCE grants.
7	Worked on Rule 20 issue.
8	Gave interview on rotating outages.
9	Worked on EE/DR presentation.
10	Attended city council meeting.
11	
12	

For which day would you like to enter data next?

- Tuesday, April 17
- Wednesday, April 18
- Thursday, April 19
- Friday, April 20
- Saturday, April 21
- Sunday, April 22
- I've completed my entries for now.

Prev

Next



# Analysis

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- Time percentages computed for activity
  - Some activities put into higher level groups
- Comparisons made between employee groups
- Time percentages computed then reported to finance department for budgeting



# Analysis

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- Coding the descriptions led to an even deeper dive
  - What types of specific projects were worked on?
  - Within an activity, was more attention given to one area than another?
    - Difficult vs. path of lease resistance
  - Was there balance between customer groups?



# Applications

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- Job Analysis

- Provides a more accurate estimate of time spent on certain activities than a focus group or limited observation
- Gets people to think very concretely about what they are working on in real time
- Can provide a very realistic job description in terms of what a person will be doing on the job



# Applications

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- Performance Management
  - Is the person spending time where s/he “should” be?
- Helps you understand seasonality of performance
- Adjust resources in real time



# Caveats

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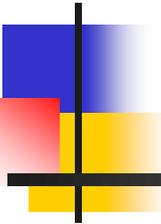
- Availability/willingness of participants to complete on a daily basis
  - Depending on job complexity, results become reliable in 4-5 weeks
- There will be some time fudging



# Conclusion

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- Job analysts have the skills to provide other job evaluation services
- Original I/O psychology concepts, such as time and motion, are useful in understanding jobs in a knowledge-based organization
- The data we gather can be used for several uses that have significant ROI



# Q&A

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