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## Cycle Time

# Knowledge worker productivity

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In this installment of cycle time, I intend to continue exploring *knowledge worker productivity* with an emphasis on the two essential questions that Peter Drucker, noted management theorist and guru, developed more than 10 years ago to define the productivity of knowledge workers.

As noted by Drucker, a knowledge worker does not produce physical goods, nor does he or she render a service as traditionally defined in economic theory.

A knowledge worker produces information that other knowledge workers use in the performance of their jobs. In 1999, Peter Drucker offered a theoretical model for measuring the productivity of knowledge workers.

The given figure extends Drucker's theory, depicting the two underlying questions that frame the performance of a knowledge worker's job.

- *Who owes me what types of interactions, information, and/or experiences, fulfilled how?*
- *I owe to whom what types of interactions, information, and/or experiences, fulfilled how?*

We can measure the productivity of knowledge workers by tracking two processes. First, how quickly can any worker frame a request for information (interactions or experiences) and get an accurate response. Second, how quickly can this worker understand a request and provide an accurate answer.

### ACTOR'S SELF-IDENTITY

The *self-identity* dimension of a knowledge worker productivity model characterizes how the individual as a knowledge worker sees himself or herself.

A *performance-support model* answers the question, 'What physical, social and

psychological resources does a particular knowledge worker need?'

It also specifies a knowledge worker's environment, such as open floor plans with cubicles versus closed offices, the presence or absence of customers, and the capabilities of a technology infrastructure.

*Learning* encompasses a broad range of factors, including *cognitive and connotive skills*, access to *communities of practice or expertise*, and how one learns best (talking and listening, reading and thinking, or watching and doing). These factors also include *learning motives* (helping, playing, producing or understanding) and *format preferences* (visual, auditory or kinesthetic).

*Value-fulfillment process* represents how individuals go about realizing their dreams and ambitions. This model includes a definition of core values and goals, desired and avoided trust networks (within which to apply their values and pursue their goals), actions and behaviors, and meanings or interpretation of the results produced by their actions, including environmental responses to their direct actions.

### SOCIO-ECONOMIC CONTRACT

The *socioeconomic contract* characterizes both formal and informal forms of power granted by authority in an organizational structure (such as job title), and the esteem and trust conferred by co-workers (prestige in a trust network).

### SOCIAL IDENTITY

The roles in an *economic theater* reflect a range of behaviors expected from a consumer or business professional – etiquette and protocols.

*Data fixtures* relate to a range of influences one can profile with discrete pieces of data.

*Individual* data may describe a knowledge worker's age, sex, IQ or education.



## MEANS OF FULFILLMENT (E)

The productivity of knowledge workers often breaks down because of poor means of fulfilling a request for information, interactions or experiences.

The figure depicts three key dimensions of fulfillment.

*Formats* of fulfillment describe the design and layout of media or physical objects, including a product itself.

*Places* of fulfillment describe both traditional offline and newer online venues. Not shown but implied in online venues is the effect of the display. User-experience professionals state that the size of the display screens of access devices (such as a large desktop monitor, the mid-sized

LCD display of a laptop and the smaller display of an iPhone or Blackberry) exerts a significant effect on the user experience.

*Latency* of fulfillment describes how fast a knowledge worker waits for a useful answer (information, interaction or experience).

A more startling finding in the research of organizational behavior reveals that few, if any, knowledge workers specify their expectation or desire for latency.

## SUMMARY

This model provides a remarkably cogent, still relevant framework for all software applications and, DAM service applications, in particular.