

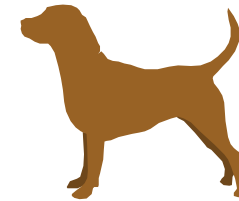
The PUP Model

Billy Gibson



The PUP Concept

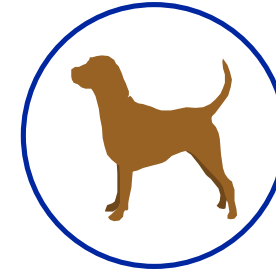
- Persistent User Profile (PUP)
 - Represents the user
 - Performs tasks on behalf of the owner
 - Gives reports
 - Collaborates with other PUPs
 - Mobile



Your Faithful Friend

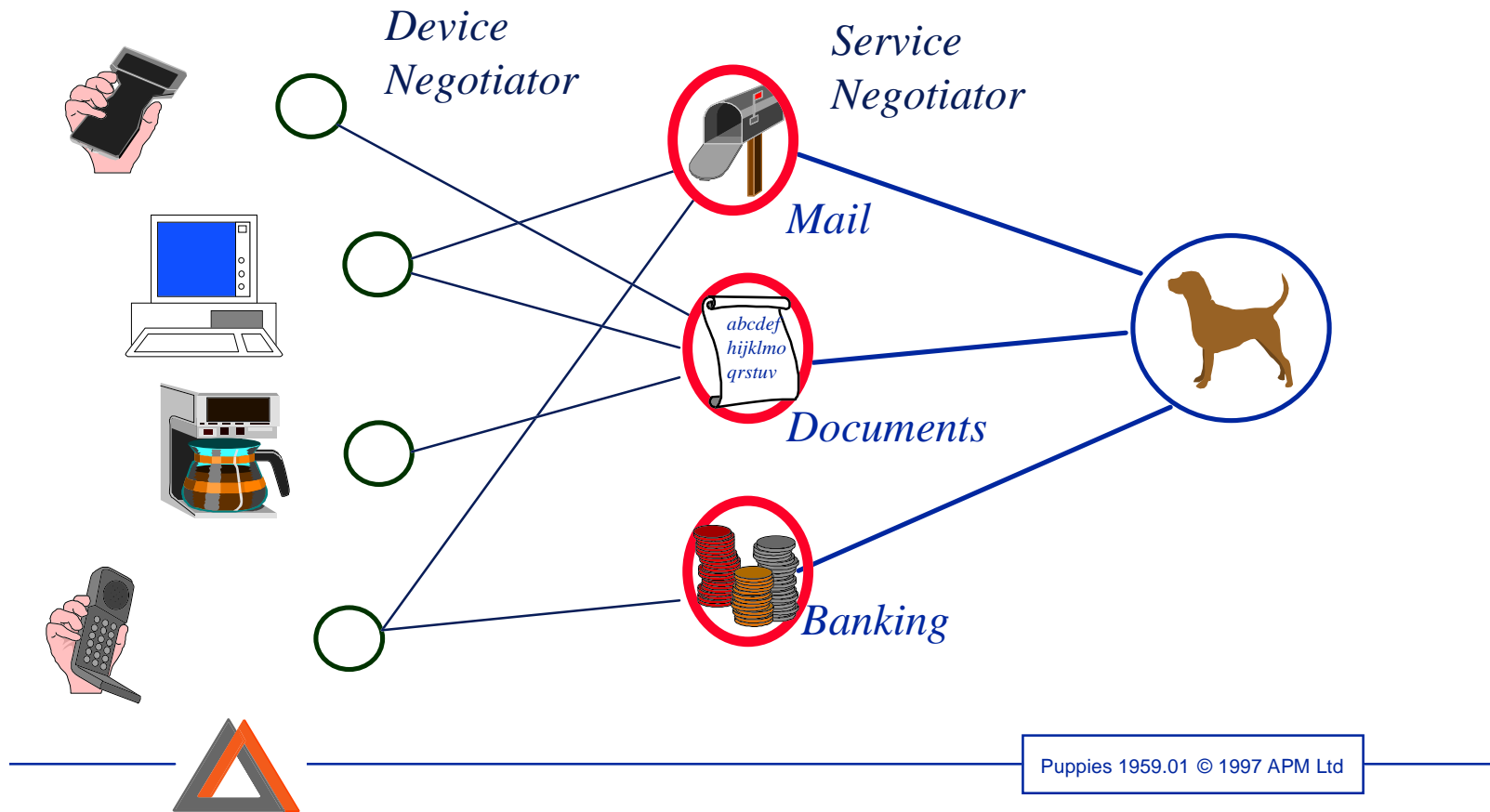
- The PUP

- Is the first port of call
- Organises and collates information
- Contain users' references and data
 - How fat is the PUP?
- PUP learns your preferences
- Communicates in a variety of ways



Media Independence

- How meta is the information?
- What realistic transformations can we perform?

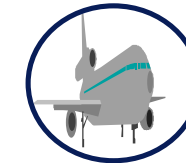
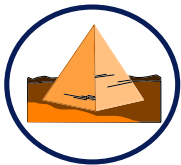


Achieving Objectives

- Finding the ideal holiday

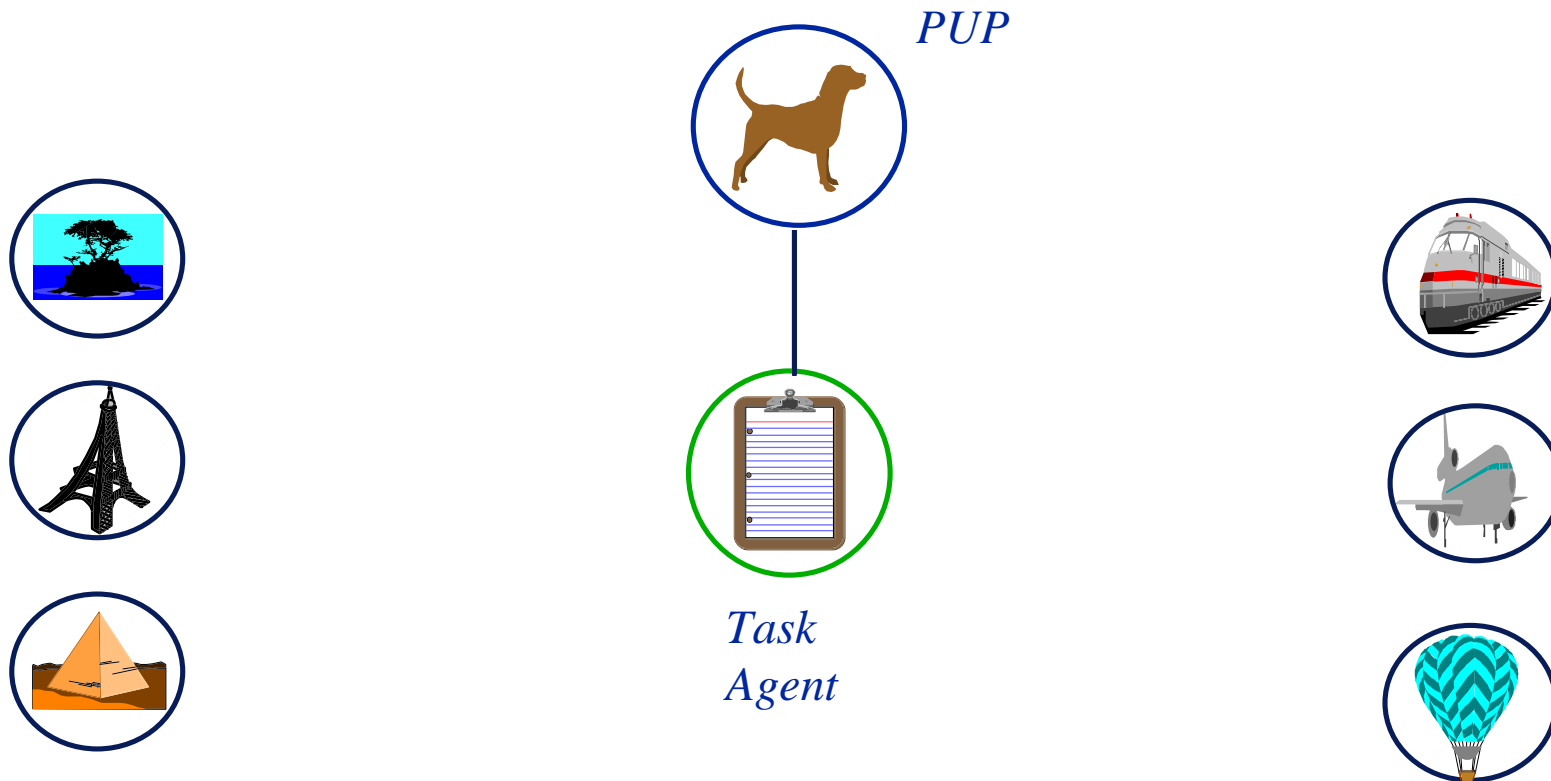


PUP



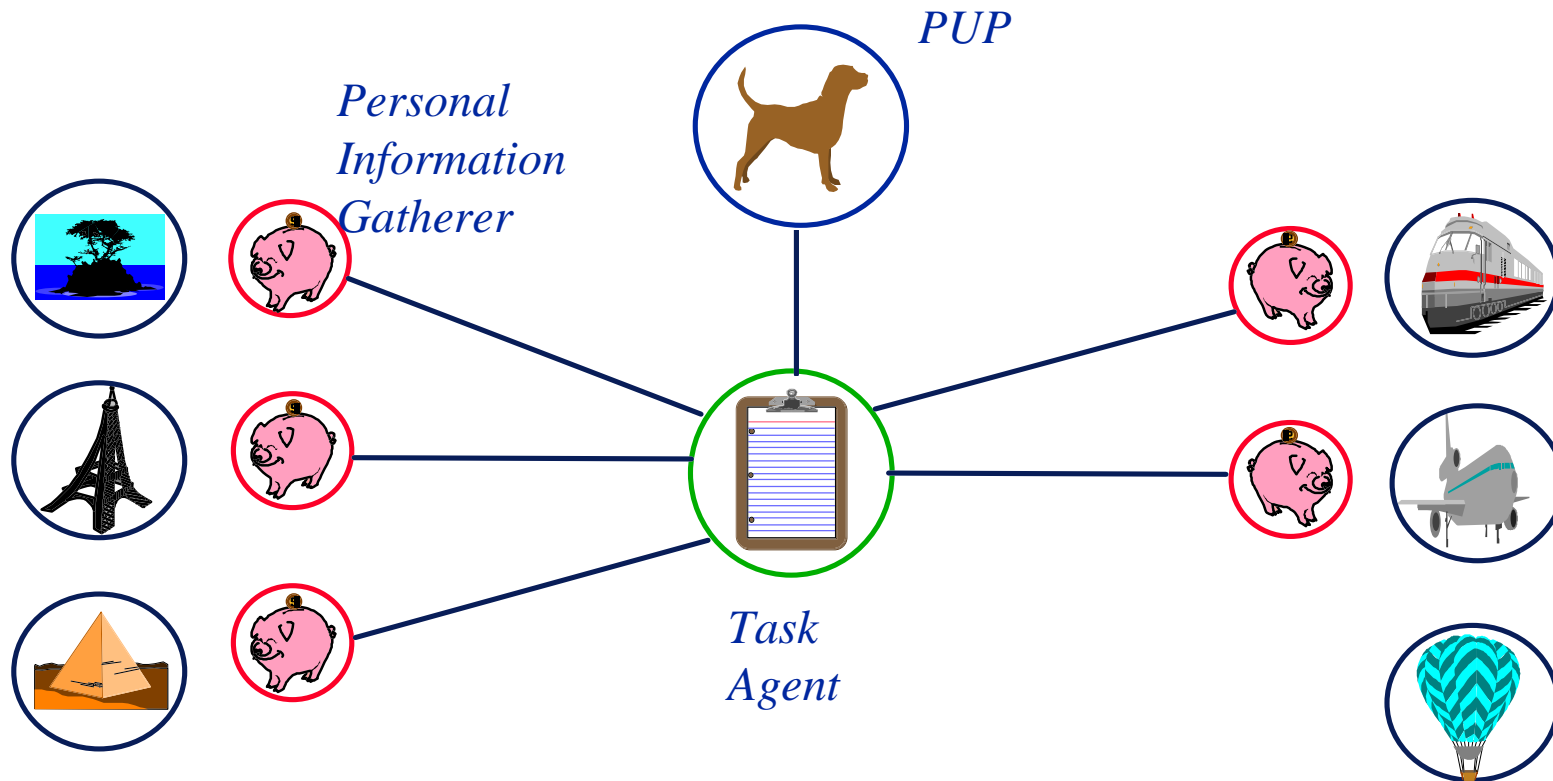
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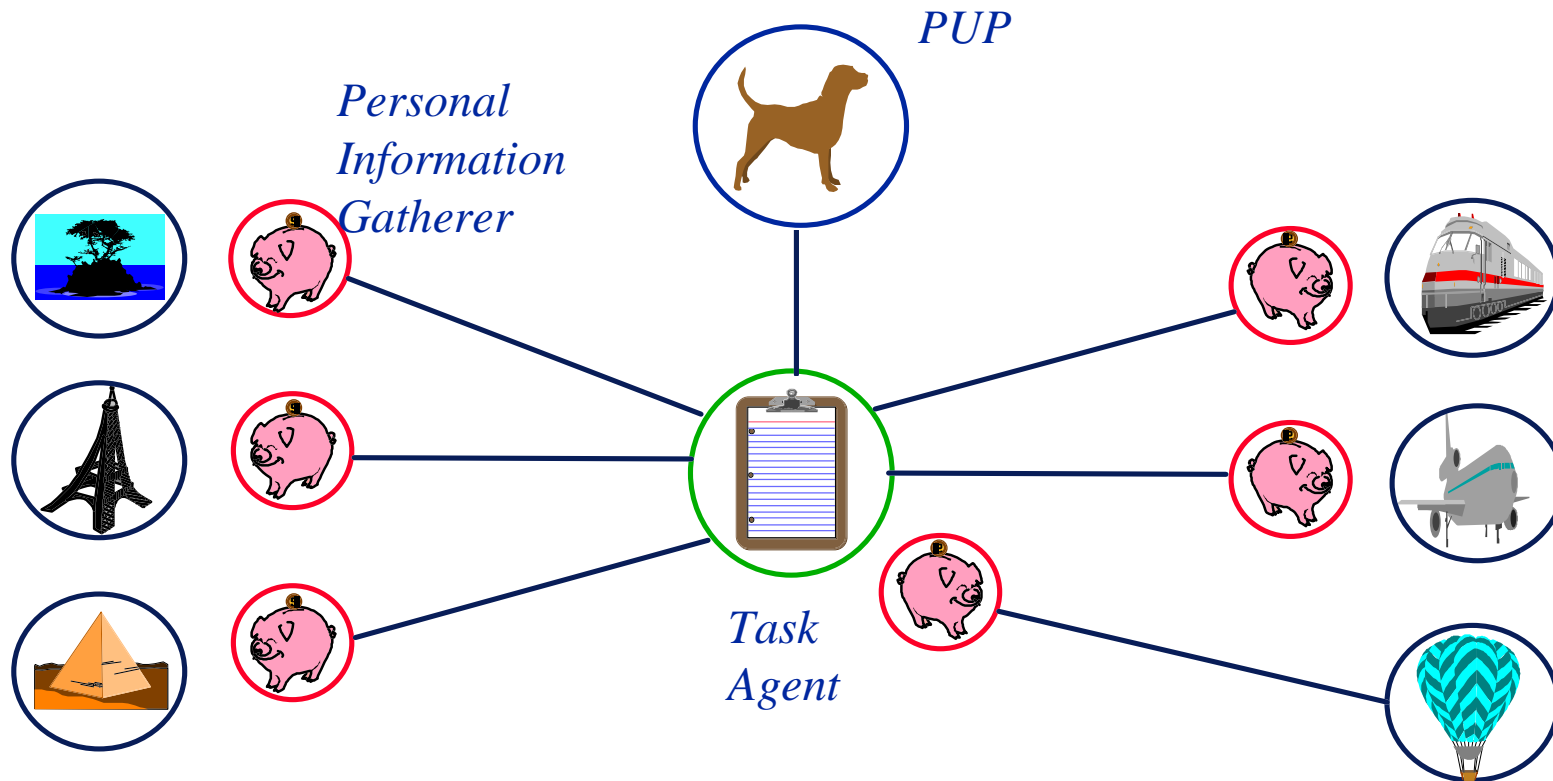
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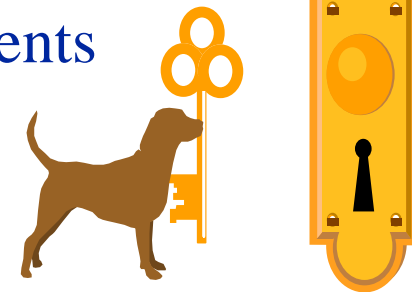
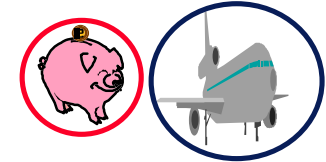
Achieving Objectives

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Mobility Issues

- How and when to decide to move
 - Before or during an interaction?
- QoS
 - Ensuring resources/services are available and not abused
- Security
 - Preventing eaves droppers or spoofs
 - Protecting PUP, PIG, and Task agents



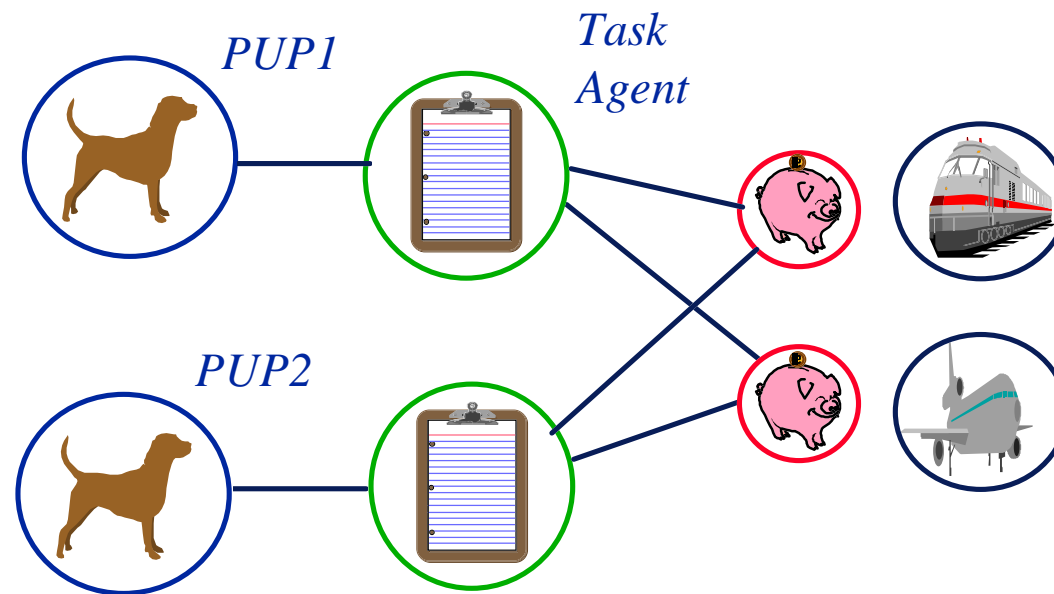
Reporting

- After user disconnects/reconnects
- To a different location
- Wide variety of time scales
 - From seconds to years
 - Periodically
- Wish to monitor services over very long time frame



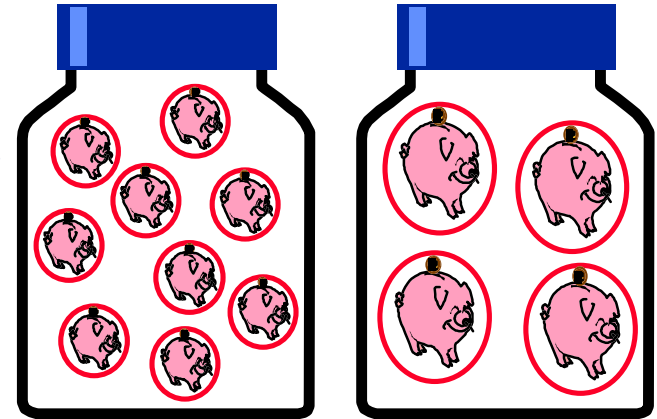
Intelligence

- Collaboration, enabling efficiencies
- PUP learns about users' preferences

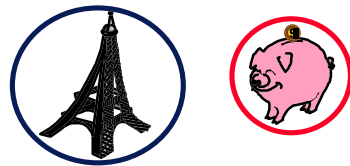


Adaptive Agents

- How adaptive are agents?
 - Tailor made or master of all trades?



- Require versatile and future proof interfaces to services



Charging

- User contracts with their ISP
- ISP charges for:
 - life-span, traveling costs, baggage allowance
- Charging between ISPs
- How to limit charges that PUP can run-up
- Agorics - Cheap time Vs Urgency of task



Questions

- Is the PUP, TASK, PIG model suitable?
- Goals: how to specify them?
- How versatile and adaptive need agents be?
- Should collaboration be restricted?
- Future proof interfaces - what are they?
- Charging: what should we investigate?

