

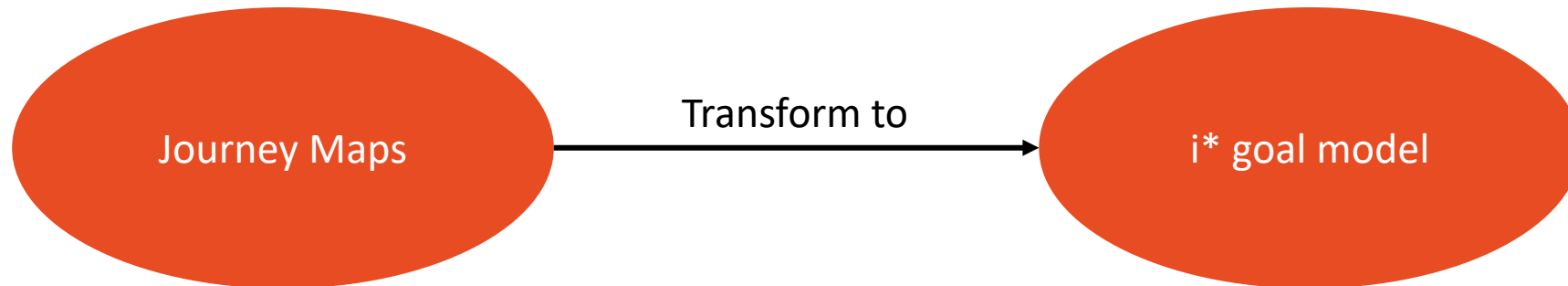


# Towards an Approach for Generating iStar Goal Models from Journey Maps

**Imen Benzarti**

École de Technologie Supérieure, Montreal, Canada

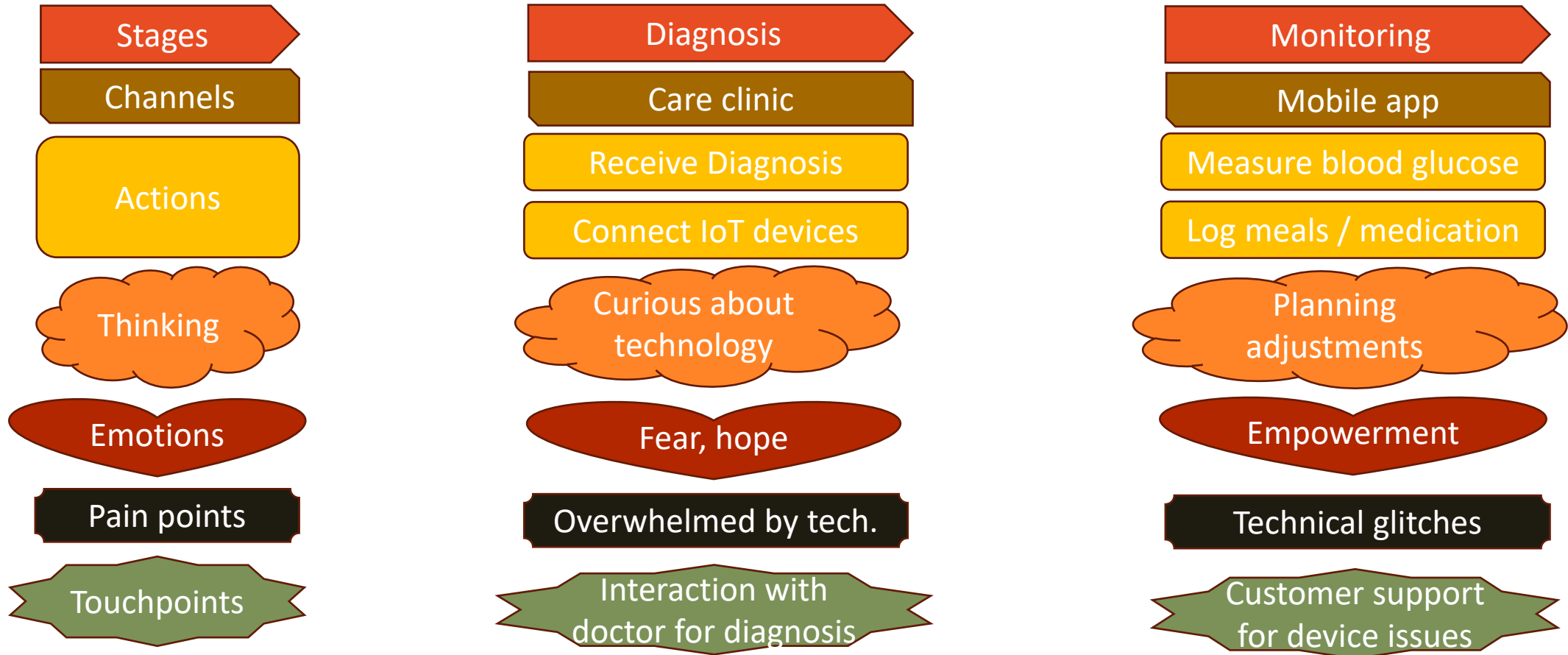
# Objective



# Journey Maps

- Visual representations of a user's experience with a system, product, or service.
- Reflect the user's point of view.
- Widely used in UX design, customer experience, and interaction design.

# Journey Maps



# i\* framework

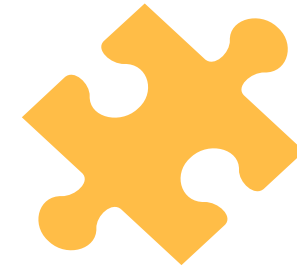
- Framework for modeling social, intentional, and strategic aspects of software systems.
- Components : **Actors**, Goals, Tasks, Resources, Softgoals.

# Motivation for Transformation



## Challenges with Journey Maps:

Informal descriptions make direct use in requirements analysis difficult.



## Benefits of iStar Models:

- Systematic approach to user requirements.
- Analyzes goals for consistency and correctness.
- Identifies requirements trade-offs and satisfaction levels.

# Proposed Mapping Approach

- **User journey** ↔ **i Star**
- Stages ↔ **High-Level Goals (not systematic)**
- Channels ↔ Actors (acts independently) or Resources
- Actions to ↔ Tasks
- Goals to ↔ Goals
- Thinking to ↔ Beliefs (Removed from iStar 2.0)

# Proposed Mapping Approach

- **User journey** ↔ **i Star**
- Emotions ↔ **Softgoals (or extended versions)**
- Pain Points ↔ **Obstacles (new elements linked negatively to a task)**
- Touchpoints :
  - Stimuli ↔ **Goal**
  - Interface ↔ **Resource**



« Engagement with **app's online community** (resource) for **support and advice** (goal) »



# Challenges in Transformation

## User-Centric Perspective:

- May neglect roles of other actors.

## Complexity:

- Detailed journeys and multiple interactions increase mapping difficulty.

## Iterative Approach:

- Start with simple examples and progressively handle more complex cases.

# Validation Strategy



## Expert Review:

Involvement of domain experts to refine mapping rules.



## User Feedback:

Evaluate usability and effectiveness.



## Iterative Refinement:

Incorporate feedback and empirical findings for continuous improvement.

## Conclusion

### Summary:

- Presented an approach to generate iStar goal models from journey maps.
- Highlighted challenges and proposed solutions.

### Future Work:

- Further refinement of mapping rules.
- Enhanced validation with real-world applications.