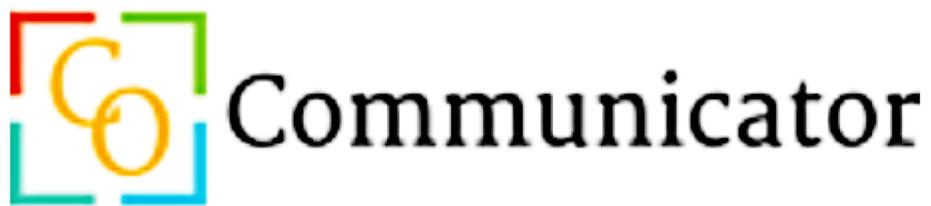


# The Learning Community

## Management AI Assistant:



**AI for the Common Good: F'AI'R Education  
Hackathon  
25-26 February 2020**



- ❖ Miriam Burfeind
- ❖ PhD Student Education and Psychology
- ❖ Gamification and E-Learning

- ❖ Mark Vidal de Palol
- ❖ PhD Student Cognitive Science
- ❖ Neuroinformatics

- ❖ Renato Garita
- ❖ PhD Student Cognitive Science
- ❖ Artificial Intelligence

## SHORT SUMMARY

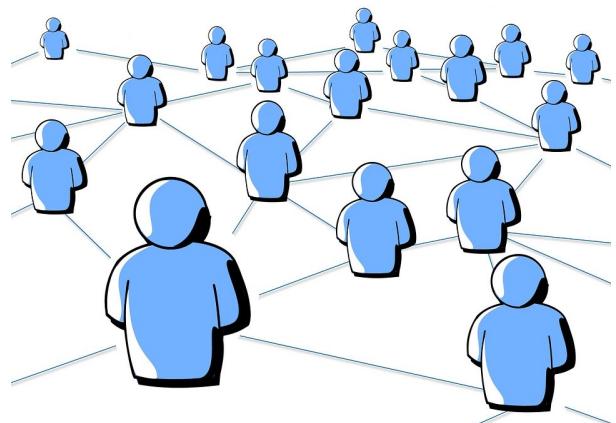
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*The COMMUNICATOR is an AI assistant that interacts with e-learning users and provides recommendations to create learning communities by analysing data of interactions between users and learning material. It also organizes existing Learning Communities and offers an incentive system for participation.*

# Agenda

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1. Our User Story
2. Our Solution: **Learning Community Management AI Assistant**
3. Our Development Process
4. Discussion



# 1 Our User Stories

## User: Ali

- Name: Ali
- Age: 43
- Job Biography: works in IT-Support
- Goal: To apply for new job in the field of data analysis

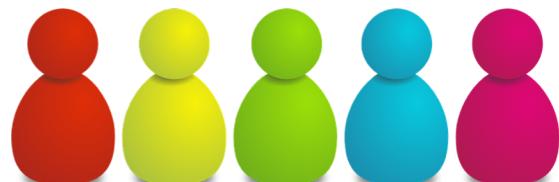
→ Wants to use E-Learning database



# 1 Our User Story

## *The problems with e-learning for Ali*

- E-Learning often requires learning settings independent of time and place
- Feeling “lost” within too much information
- Problems with motivation to study
- Isolation



## 1 Our User Story

***What does Ali need in order to learn better?***

Possibility to interact

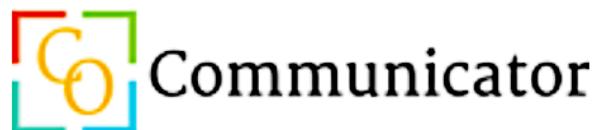
A personal approach

Possibility to ask questions

Clear instructions and guidelines (scaffolding)

Be appreciated for own knowledge

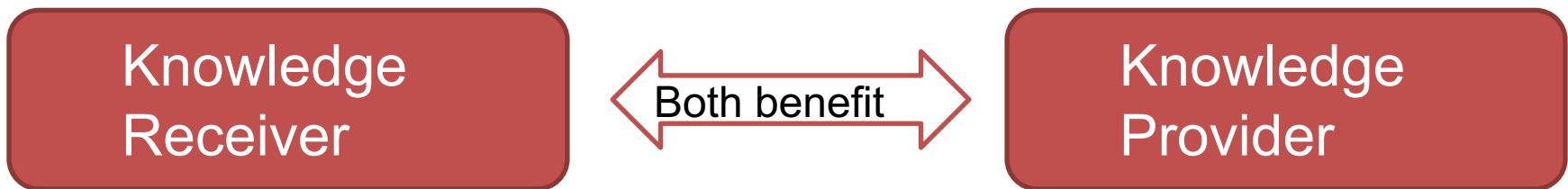
**OUR SOLUTION:**  
Learning Community Management Assistant



## 2 Our Solution

### ***Why Collaborative / Cooperative Learning?***

→ individuals learn better and faster when they work together  
(Gokhale 1995)



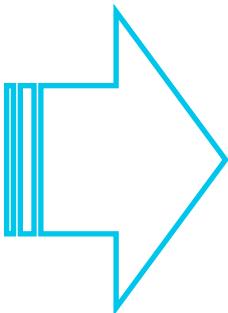
- Collaborative Learning skills as one of the most important competencies of the 21th century (see e.g. 4C-Model, DigComp of the EU and others)
- Collaboration as an important predictor for Learning Motivation

## 2 Our Solution

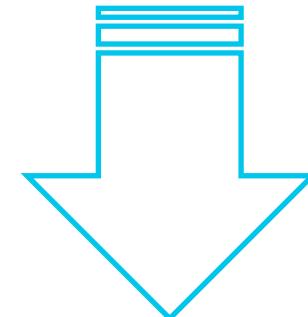
### *Learning Communities*

#### Learning Community

- Common goals / interests
- Collaborative partnerships
- Accountability for each other
- Alignment and Support



Beneficial for  
the learning  
process



**Need to be organized by  
The AI Assistant**

## 2 Our Solution

### *Incentives for participating in Learning Communities*

Creation of Forums and platforms for the topics

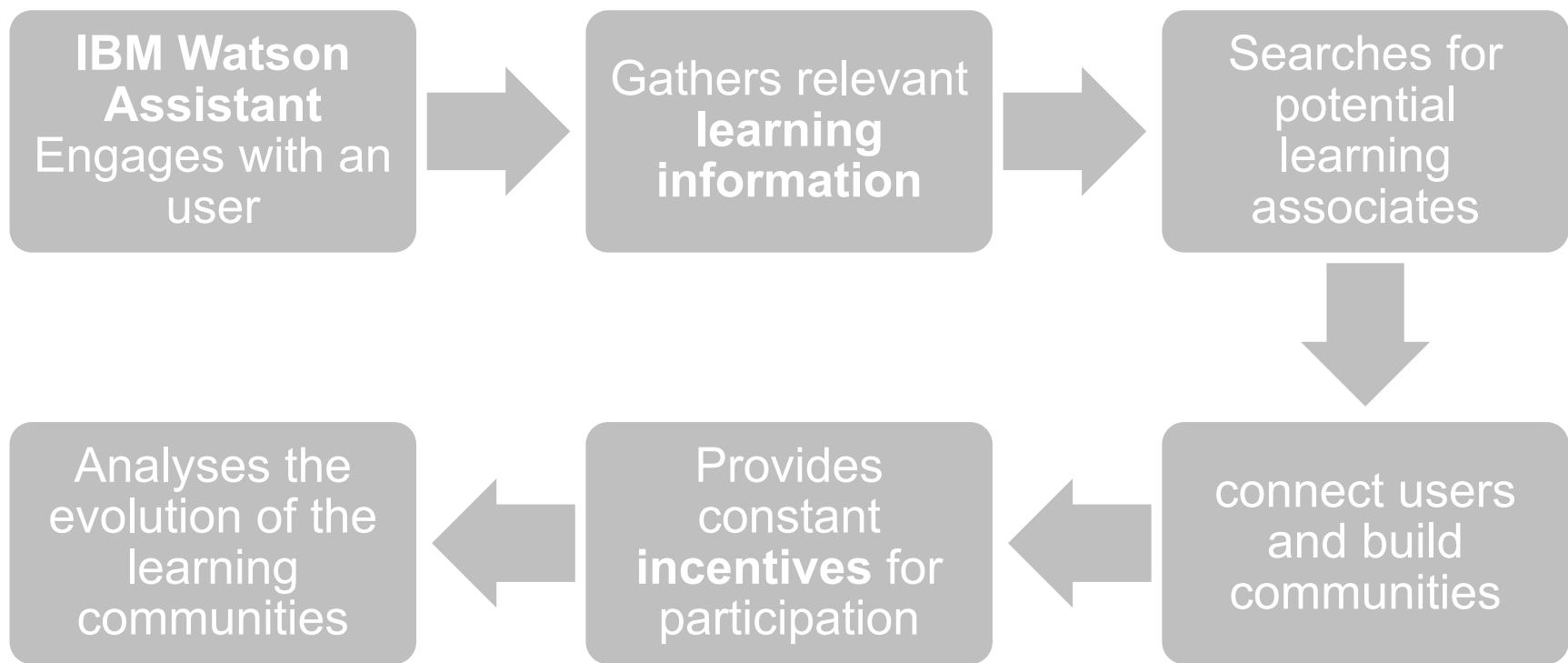
Working with gamified approaches such as rewards for answering questions of others

Possibility to get individual progress points (from novice to professor)

Participate in the Learning Community by contributions of contents

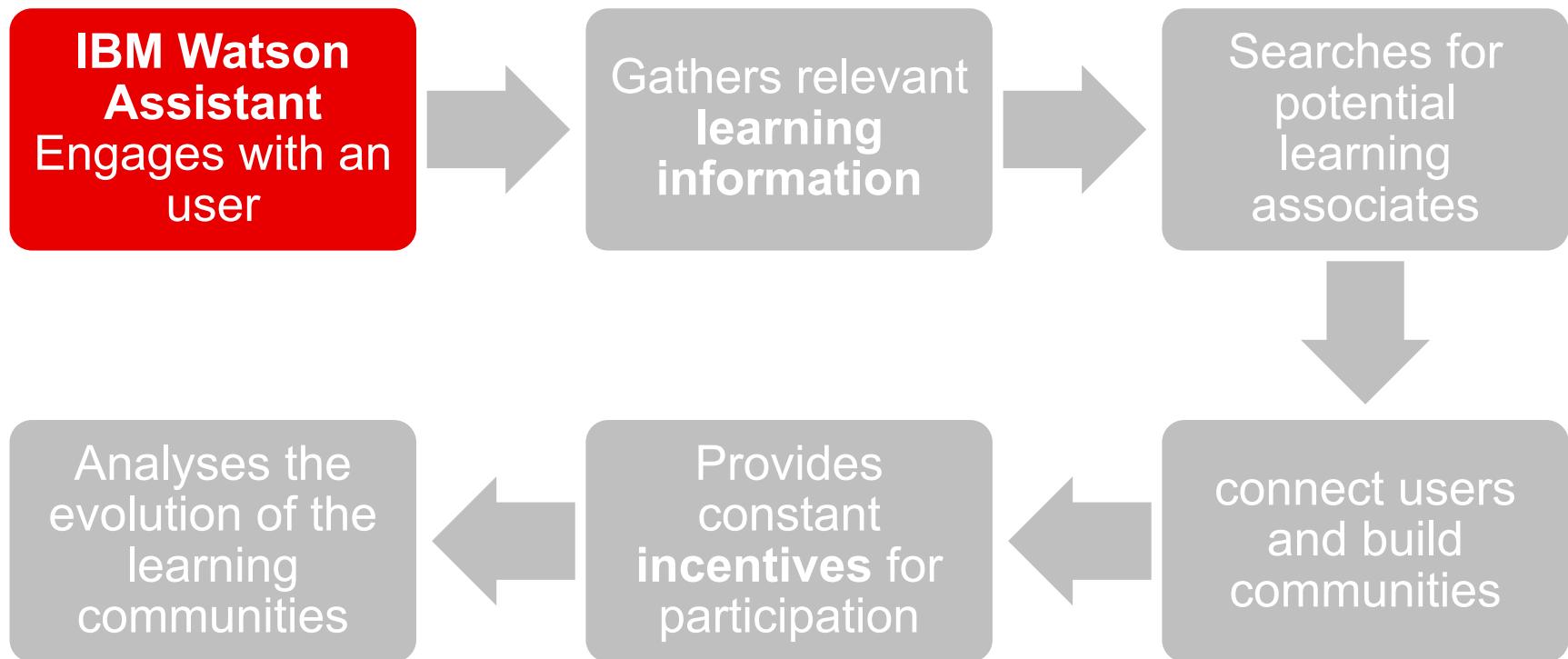
→ User feels appreciated and guided by the communicator

## 3 Our Development Process



## 3 Our Development Process

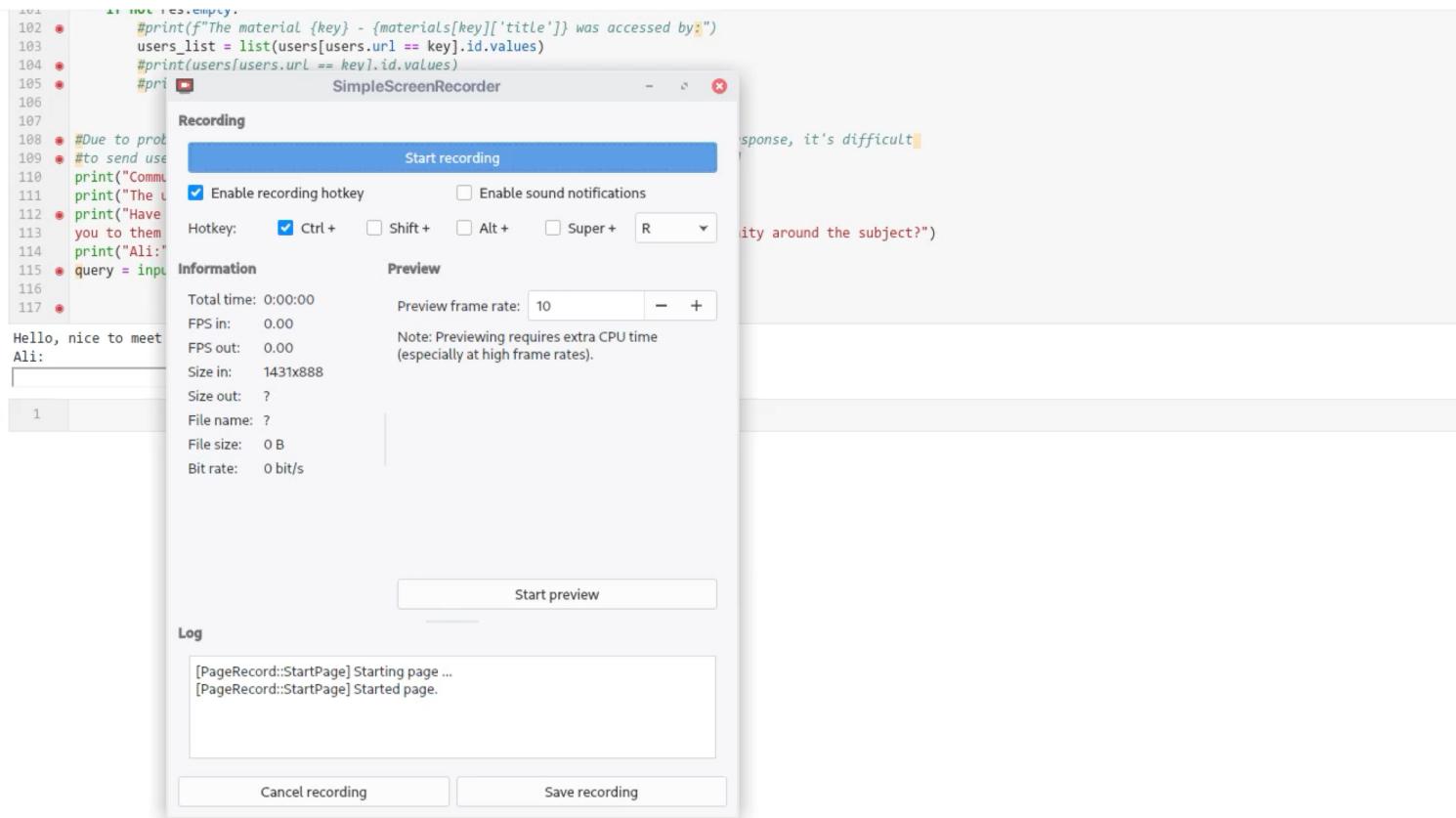
### Overview



## 3 Our Development Process

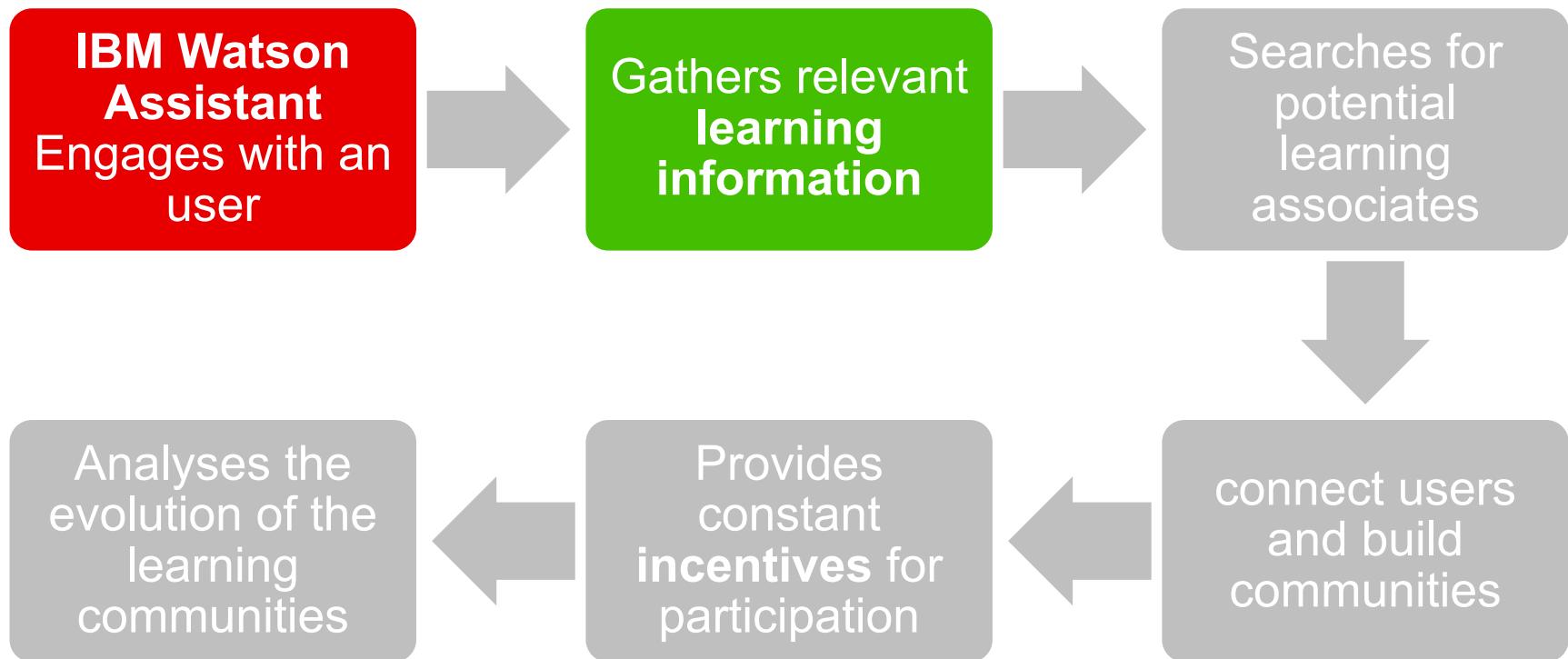
INFO: Video Communicater

### *Contact between Communicator and User*



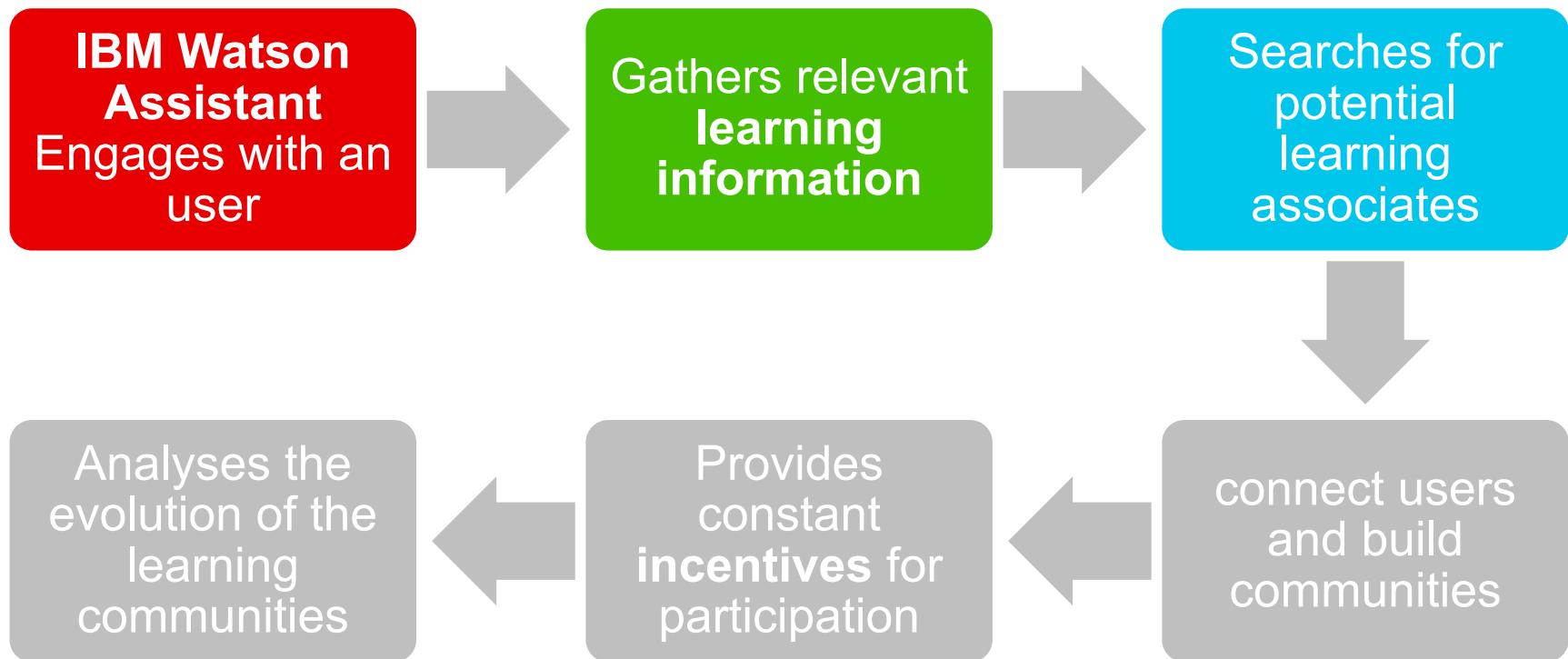
## 3 Our Development Process

### Overview



## 3 Our Development Process

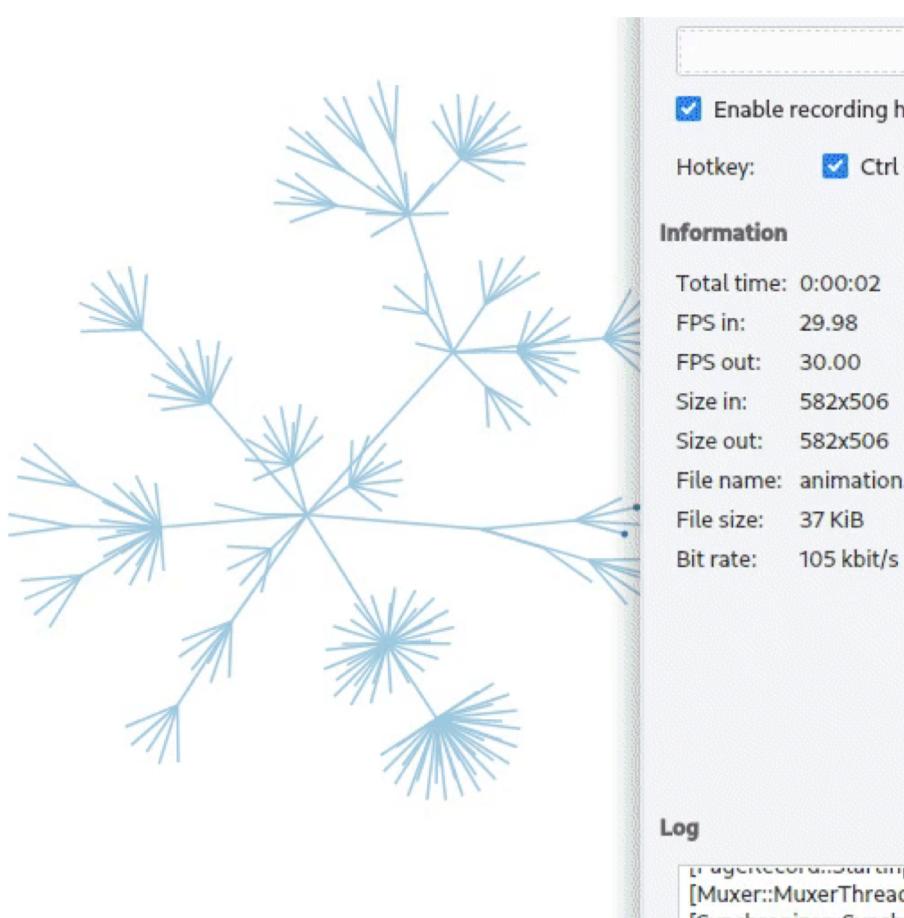
### Overview



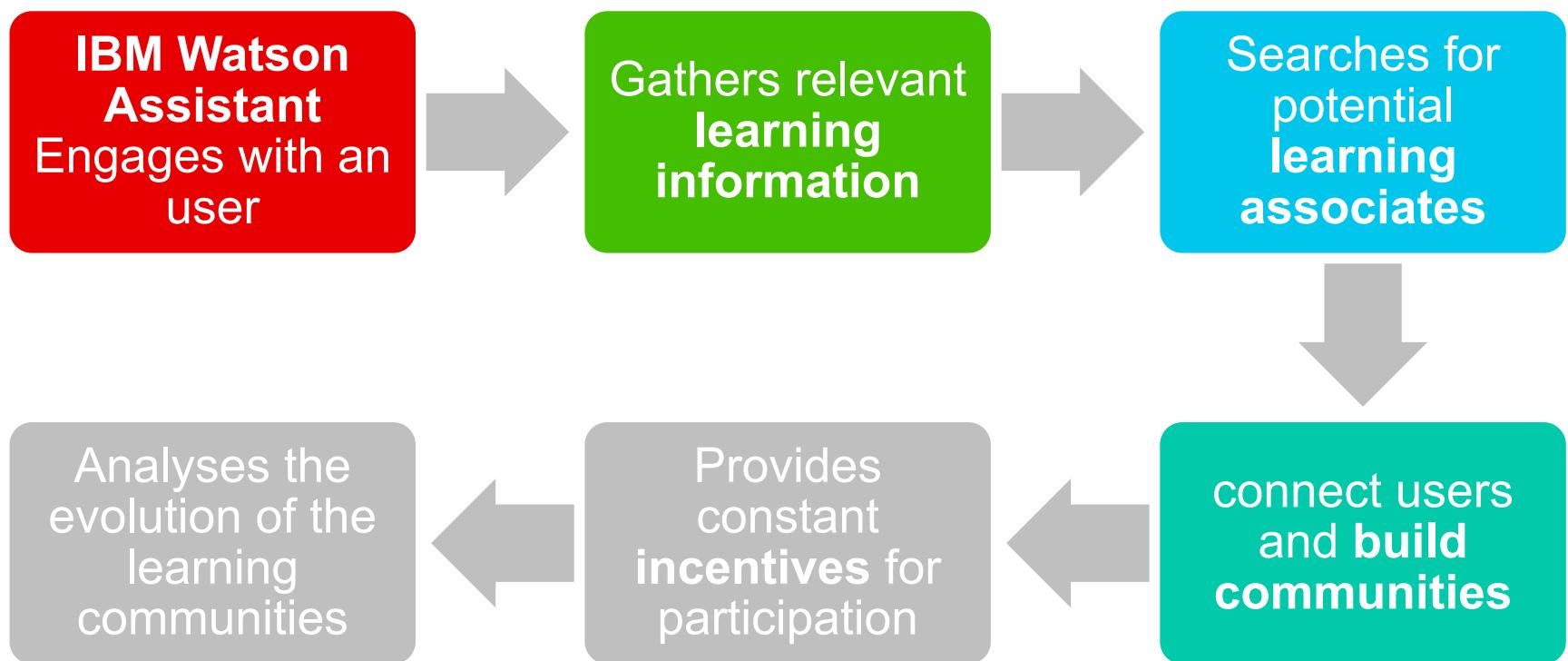
## 3 Our Development Process

### *Connecting Users with AI*

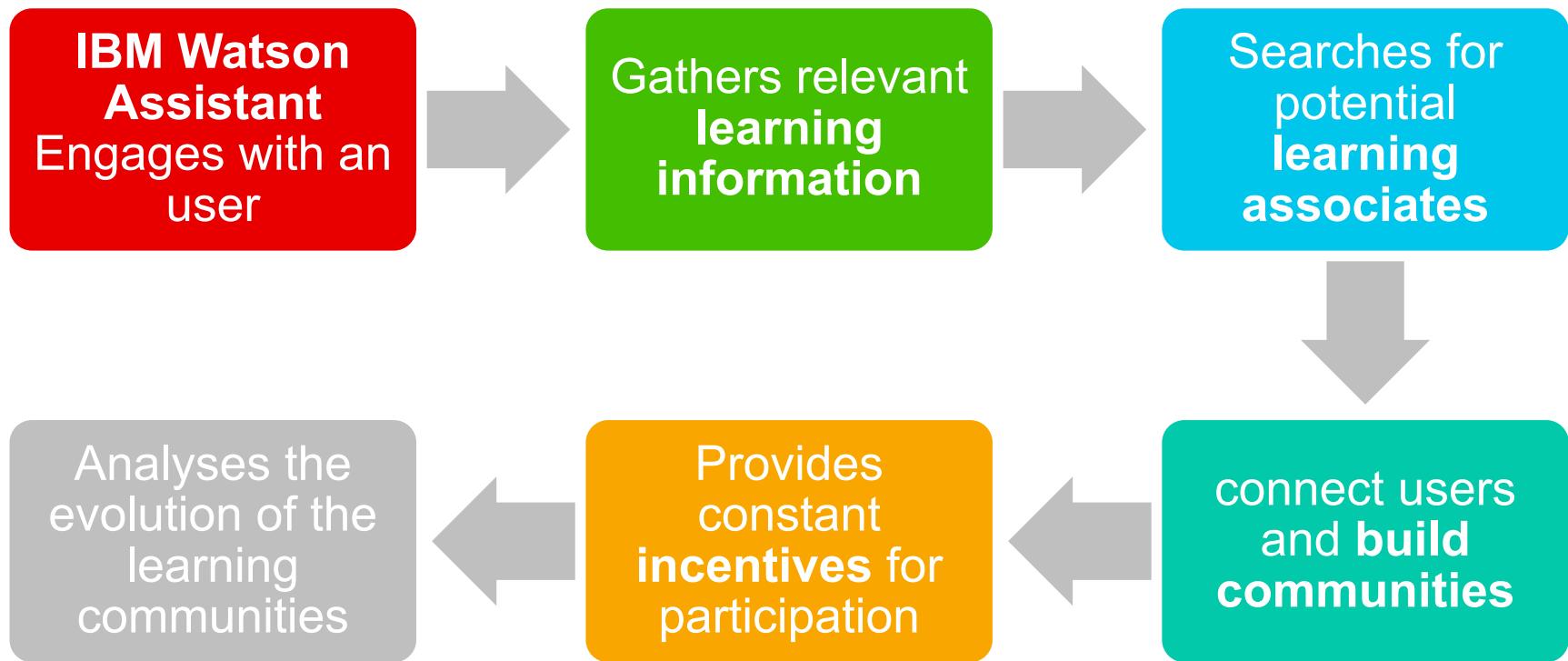
INFO: Video Communicater



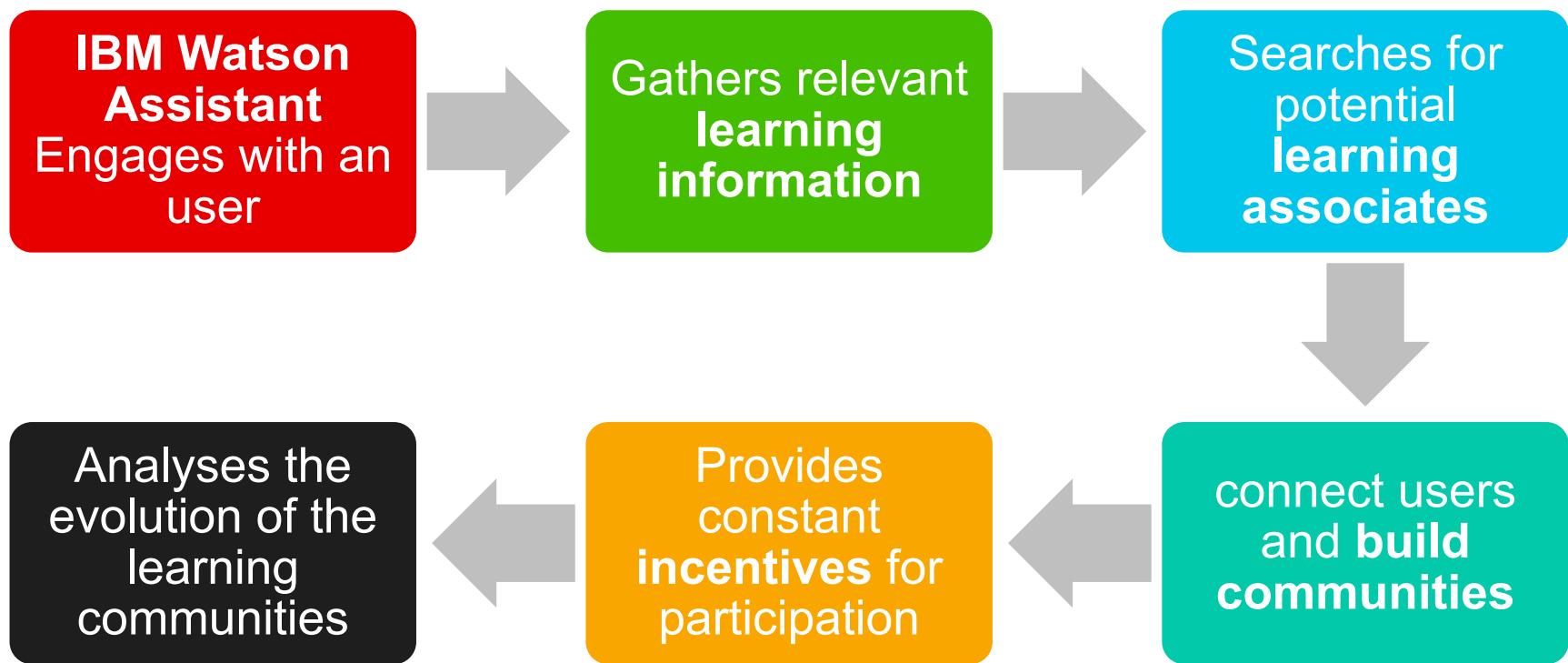
## 3 Our Development Process



## 3 Our Development Process



## 3 Our Development Process



## 4 Discussion

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- ❖ Problems that occurred
- ❖ Risks and Highlights
- ❖ Questions?

# THANK YOU!

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## Resources

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- IBM Watson Assistant
- X5GON APIs
  
- Illustrations from pixabay.de (freeware)