

# XWIKI Concerto

Software Technology Program 2006

AGENCE NATIONALE DE LA RECHERCHE  
**ANR**

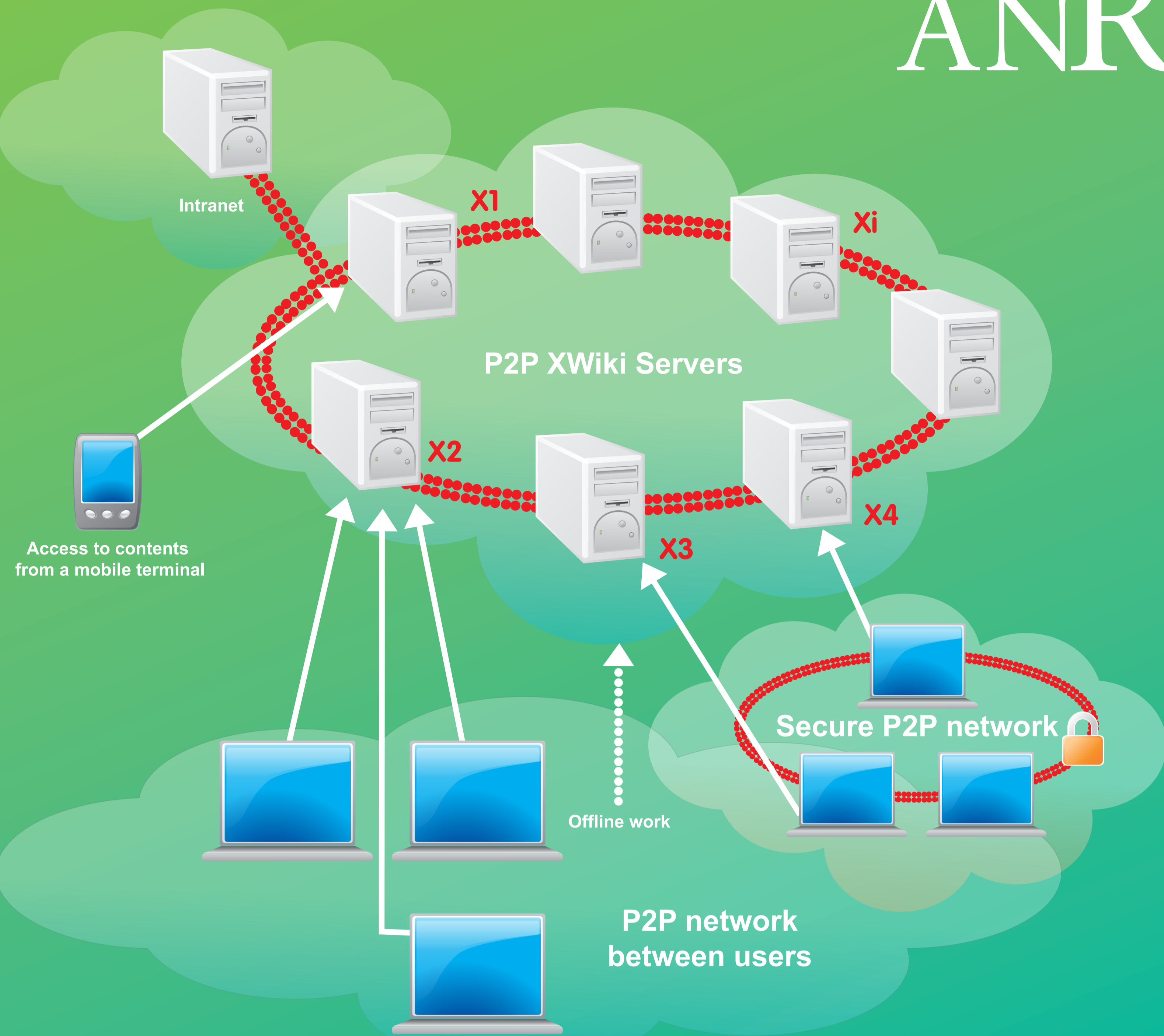


Figure 1 : overview

2007-2009

XWIKI CONCERTO

A peer-to-peer nomadic wiki

▶ [HTTP://CONCERTO.XWIKI.COM](http://concerto.xwiki.com)

## OBJECTIVES

- ▶ CREATE SOFTWARE COMPONENTS FOR WIDE SCALE PEER-TO-PEER COLLABORATIVE CONTENT EDITION
- ▶ IMPROVE THE AVAILABILITY AND PERFORMANCE OF VERY LARGE WIKIS THROUGH A DISTRIBUTED SYSTEM BASED ON LOW-COST SERVERS
- ▶ DESIGN WIKI INTERFACES ADAPTED TO MOBILE CLIENTS AND OFFLINE WORK
- ▶ CREATE SECURE CONTENT EXCHANGE PROTOCOLS OVER P2P
- ▶ DELIVER A LEADING OPEN-SOURCE SOFTWARE IN THE FIELD OF HIGH PERFORMANCE P2P COLLABORATION SUPPORTING MOBILITY

## RESEARCH TOPICS

- ▶ DESIGN OPTIMIST REPLICATION ALGORITHMS ON A DYNAMIC PEER-TO-PEER NETWORK
- ▶ GUARANTEE THE COHERENCE OF REPLICAS
- ▶ RESPECT OF USERS' INTENTS
- ▶ APPLY TO BOTH STRUCTURED AND UNSTRUCTURED DATA
- ▶ CONSISTENT CONTENT HISTORY MANAGEMENT
- ▶ IMPLEMENTATION OF INNOVATIVE OFFLINE WORK MECHANISMS
- ▶ CREATION OF WIKI INTERFACES PURPOSE-BUILT FOR THIN CLIENTS
- ▶ PEER-TO-PEER SYSTEMS SECURIZATION
- ▶ COMPONENT-BASED ARCHITECTURE

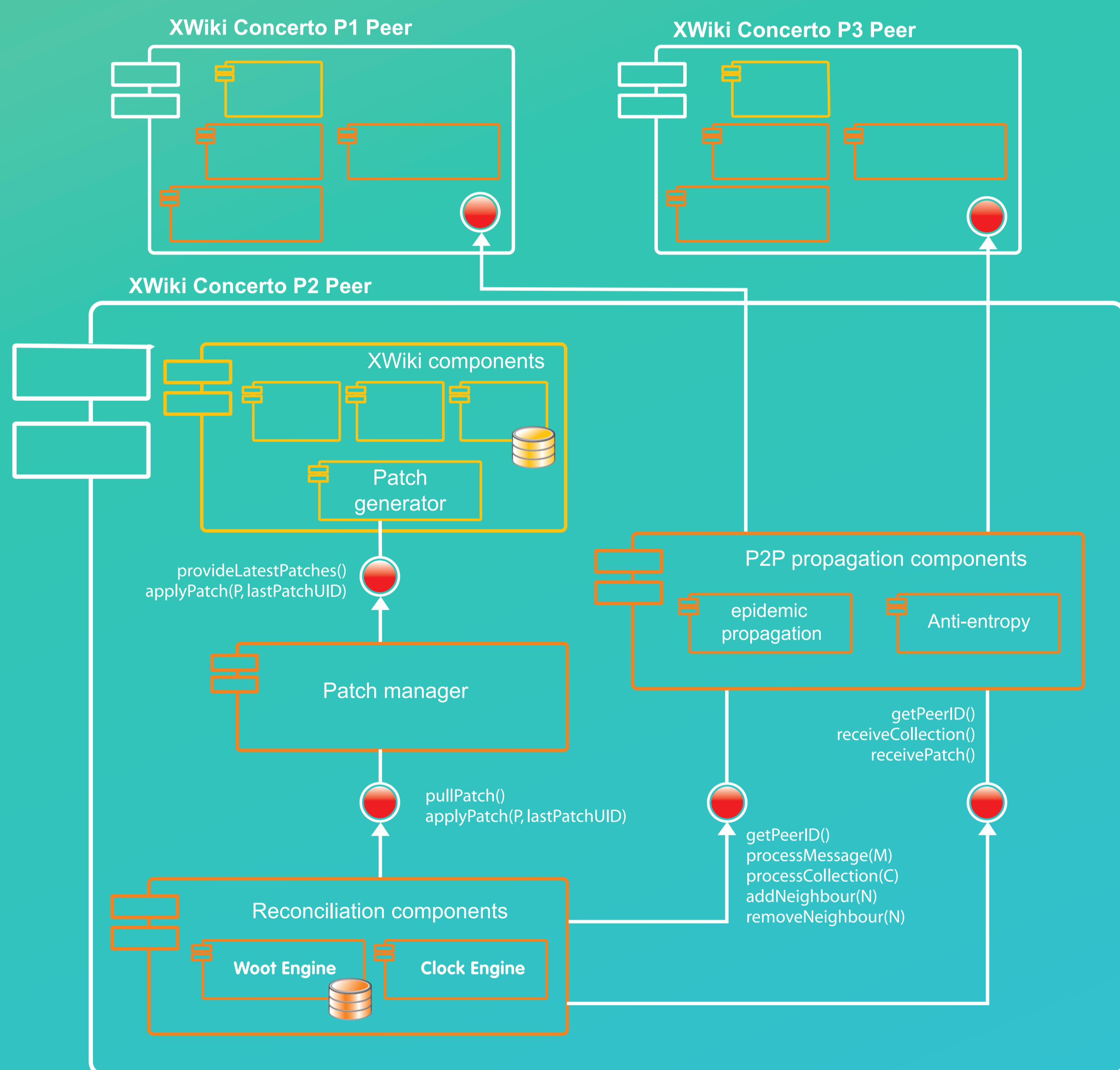
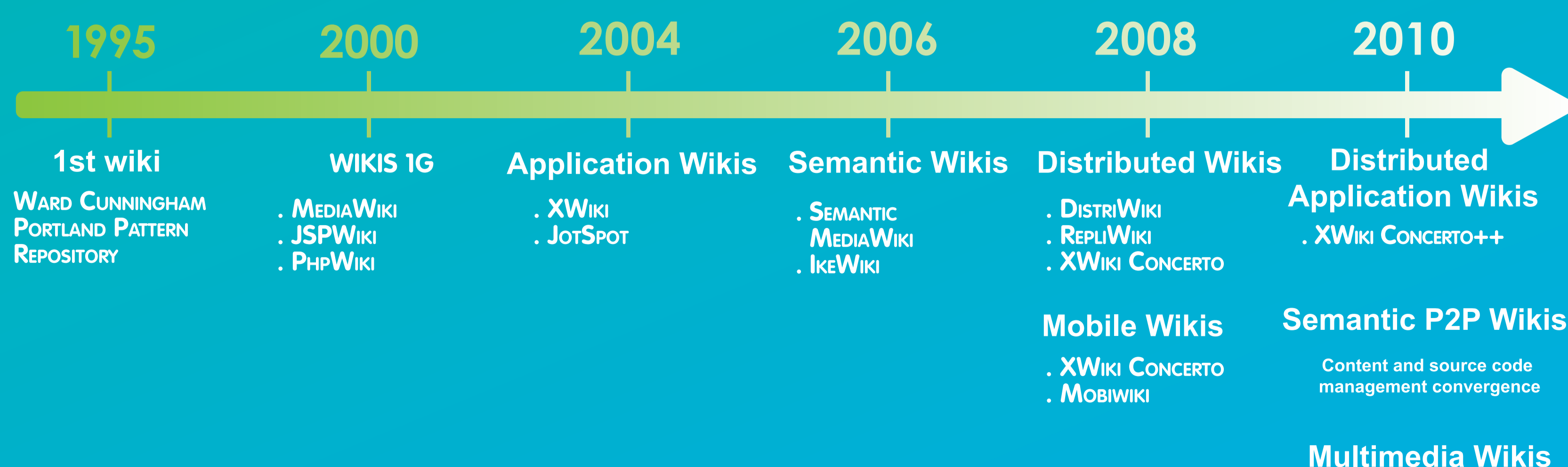


Figure 2 : Replication components

## XWiki Concerto and the evolution of wikis



## RESULTS

- ▶ WIKI FARM ON XWIKI.COM
- ▶ OW2 PROJECT MANAGEMENT
- ▶ MANDRIVA LINUX ENCYCLOPAEDIA

## CONTACT

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