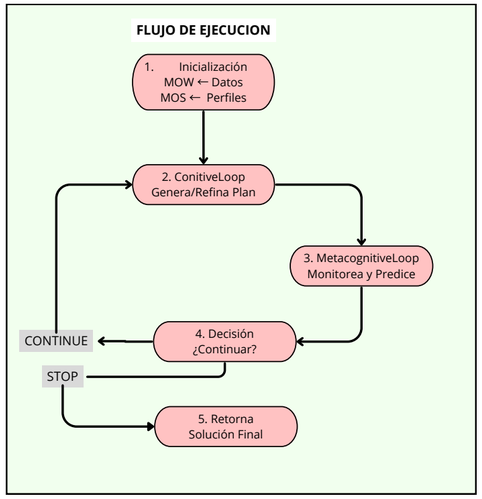
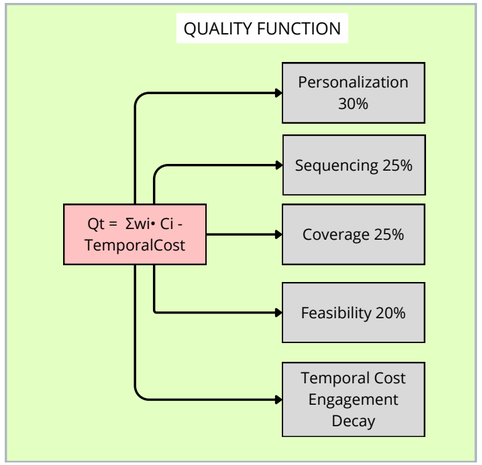
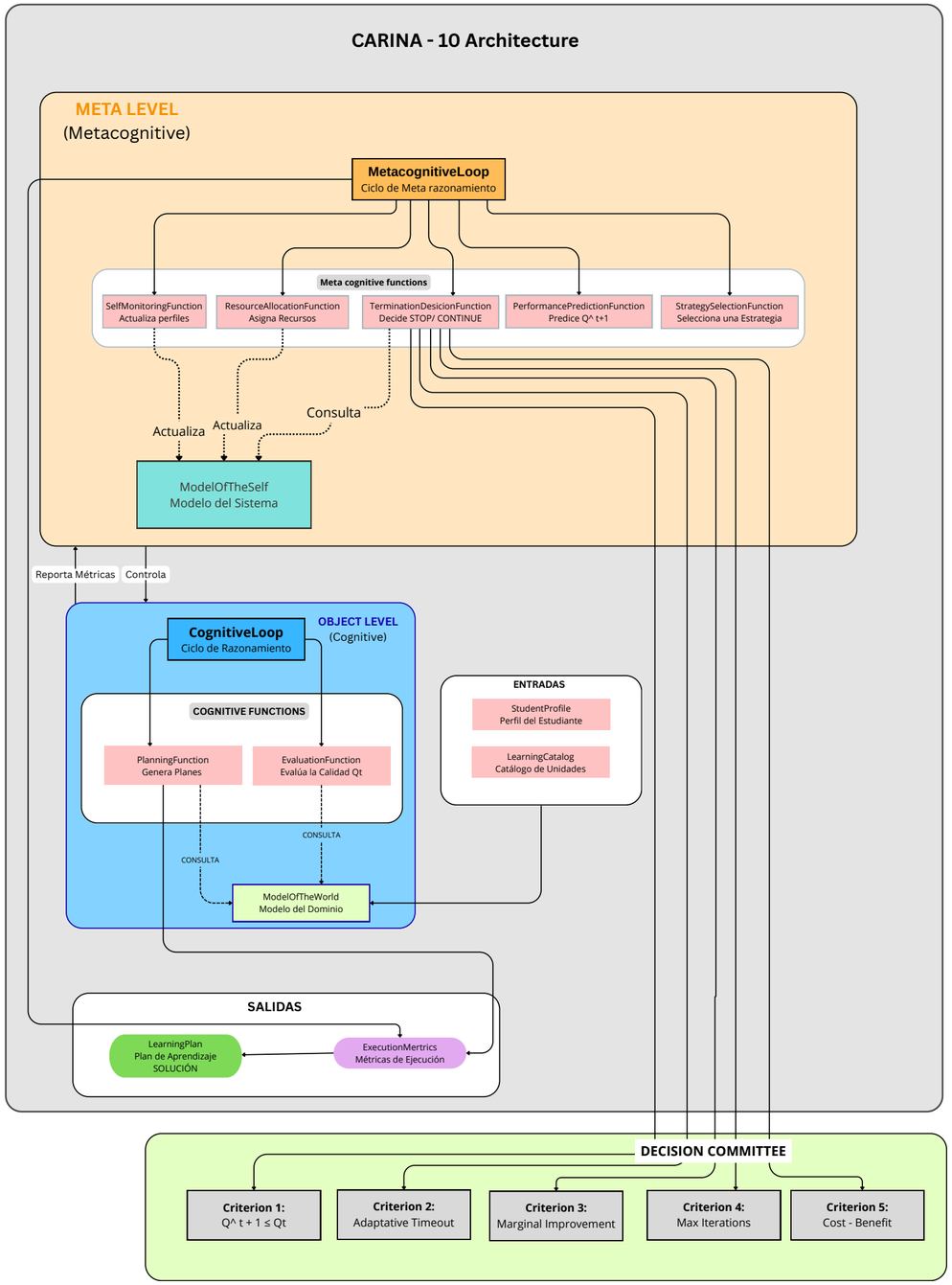

FLUJO DE EJECUCION
1. Inicialización
MOW ← Datos
MOS ← Perfiles
2. ConitiveLoop
Genera/Refina Plan
3. MetacognitiveLoop
Monitorea y Predice
4. Decisión
¿Continuar?
CONTINUE
STOP
5. Retorna
Solución Final


QUALITY FUNCTION
Qt = Σwi• Ci - TemporalCost
Personalization 30%
Sequencing 25%
Coverage 25%
Feasibility 20%
Temporal Cost Engagement Decay


CARINA - 10 Architecture
META LEVEL
(Metacognitive)
MetacognitiveLoop
Ciclo de Meta razonamiento
Meta cognitive functions
SelfMonitoringFunction
Actualiza perfiles
ResourceAllocationFunction
Asigna Recursos
TerminationDesicionFunction
Decide STOP/ CONTINUE
PerformancePredictionFunction
Predice Q^ t+1
StrategySelectionFunction
Selecciona una Estrategia
Actualiza
Actualiza
Consulta
ModelOfTheSelf
Modelo del Sistema
Reporta Métricas
Controla
OBJECT LEVEL
(Cognitive)
CognitiveLoop
Ciclo de Razonamiento
COGNITIVE FUNCTIONS
PlanningFunction
Genera Planes
EvaluationFunction
Evalúa la Calidad Qt
CONSULTA
CONSULTA
ModelOfTheWorld
Modelo del Dominio
ENTRADAS
StudentProfile
Perfil del Estudiante
LearningCatalog
Catálogo de Unidades
SALIDAS
LearningPlan
Plan de Aprendizaje
SOLUCIÓN
ExecutionMertrics
Métricas de Ejecución
DECISION COMMITTEE
Criterion 1:
Q^ t + 1 ≤ Qt
Criterion 2:
Adaptative Timeout
Criterion 3:
Marginal Improvement
Criterion 4:
Max Iterations
Criterion 5:
Cost - Benefit