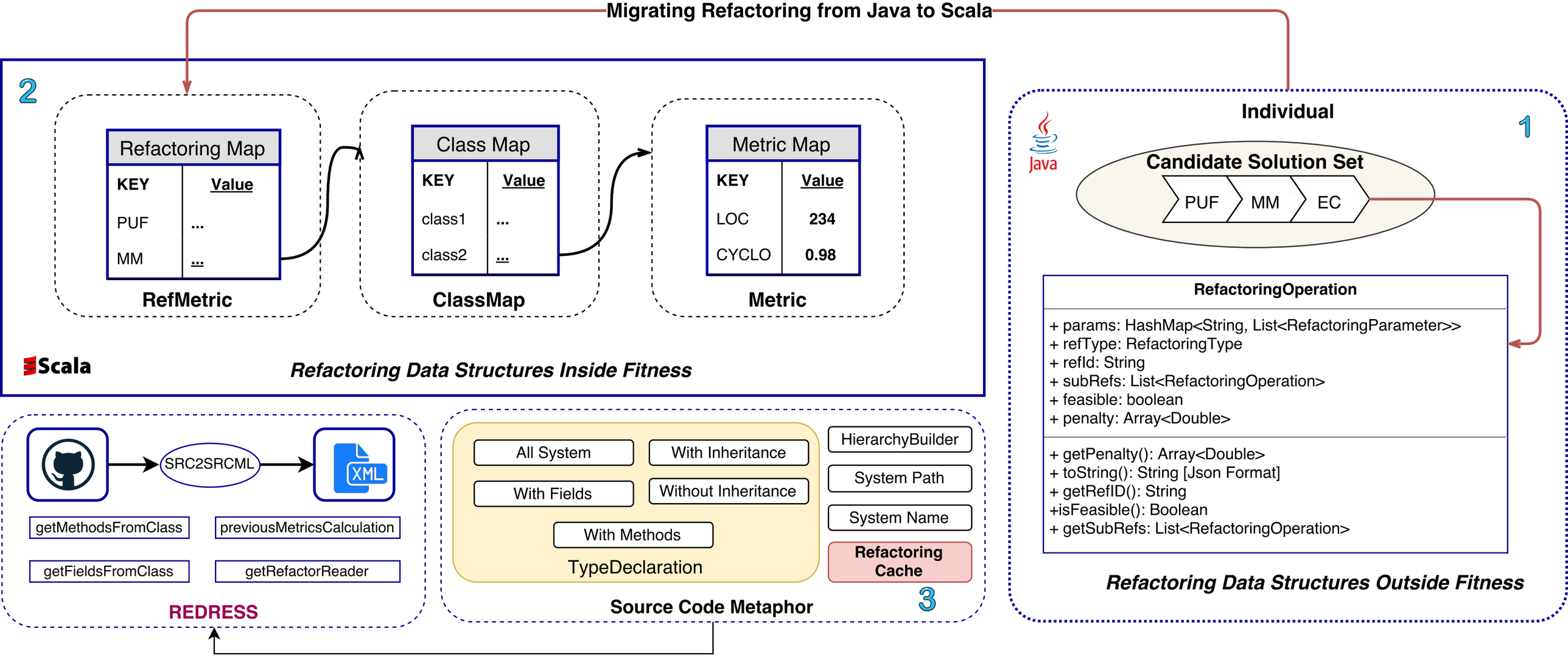
Migrating Refactoring from Java to Scala
2
Refactoring Map
KEY
Value
PUF
...
MM
...
RefMetric
Class Map
KEY
Value
class1
...
class2
...
ClassMap
Metric Map
KEY
Value
LOC
234
CYCLO
0.98
Metric
Scala
Refactoring Data Structures Inside Fitness
Individual
1
Java
Candidate Solution Set
PUF
MM
EC
RefactoringOperation
+ params: HashMap<String, List<RefactoringParameter>>
+ refType: RefactoringType
+ refId: String
+ subRefs: List<RefactoringOperation>
+ feasible: boolean
+ penalty: Array<Double>
+ getPenalty(): Array<Double>
+ toString(): String [Json Format]
+ getRefID(): String
+isFeasible(): Boolean
+ getSubRefs: List<RefactoringOperation>
Refactoring Data Structures Outside Fitness
SRC2SRCML
XML
getMethodsFromClass
previousMetricsCalculation
getFieldsFromClass
getRefactorReader
REDRESS
All System
With Inheritance
With Fields
Without Inheritance
With Methods
TypeDeclaration
HierarchyBuilder
System Path
System Name
Refactoring Cache
Source Code Metaphor
3