

# ERA Preservation Prototype

Business Analysis Team  
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# Prototype Goals

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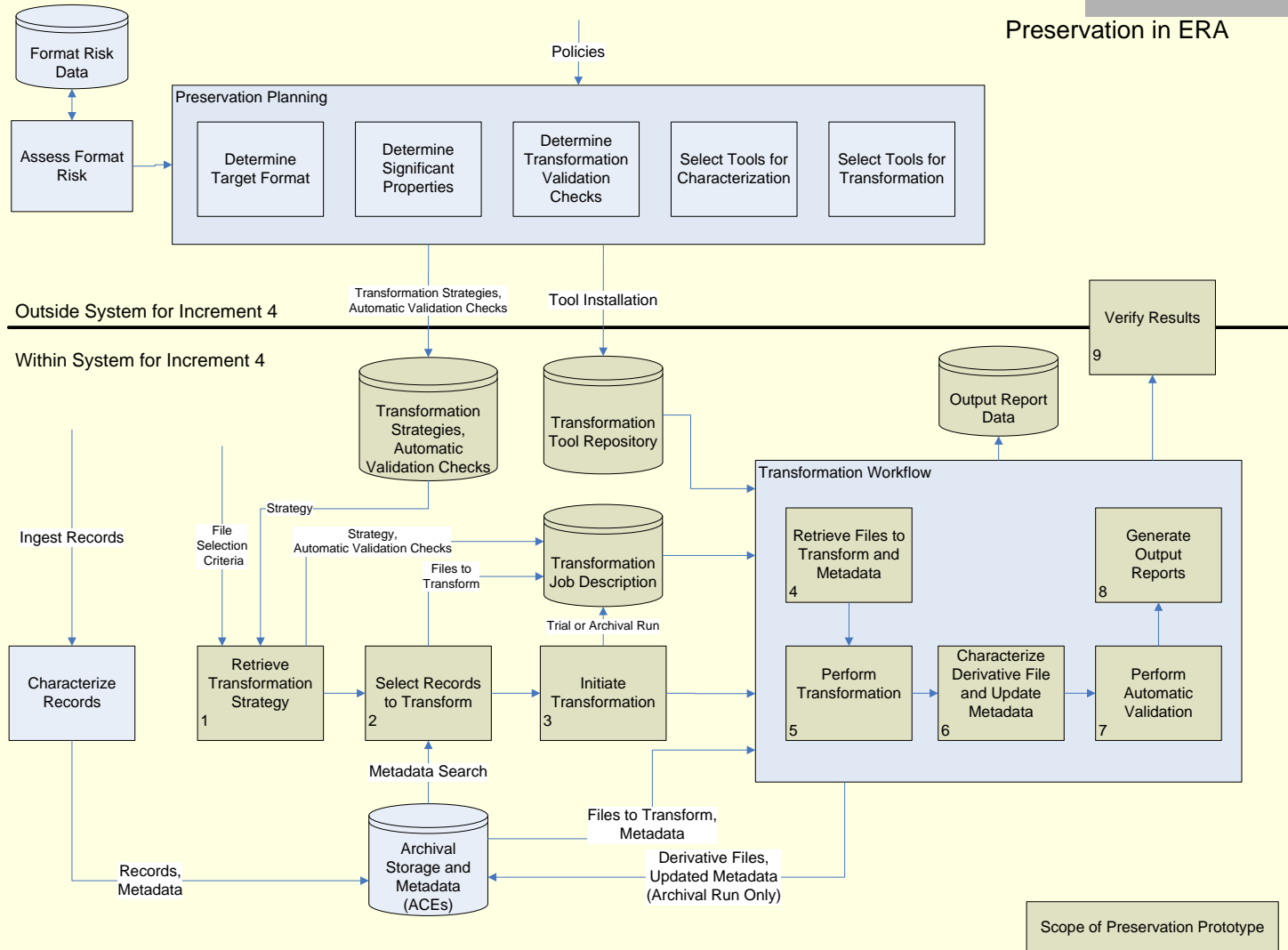
- Create a framework that will enable us to easily swap in and swap out transformation tools and approaches
- The framework will be integrated into one system (ERA) that can ingest, characterize, and transform records – can transform records for access/preservation purposes
- Ensure that the transformations we create are authentic
- Take advantage of the work of other institutions (TNA, Harvard, NZNL, NA of Australia, Planets)

# Out of Scope for the Prototype

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- We are not trying to determine the optimal strategy for a given digital format
- We are not trying to determine the optimal tool for each transformation
- We are not building the Increment 3 ingest, ACE, search, or file extract services in the prototype – these are being built by the System Evolution set of services
- We are not building in preservation planning or risk assessment
- The prototype will not be scalable – the framework will be

# What's in and what's out?



# What will be transformed?

<u>Original Digital Format</u>	<u>Target Digital Format</u>	<u>Digital Record Type</u>	<u>Transformation Tool</u>
EBCDIC	ASCII	Data Files	Version of APS
MS Word	PDF	Textual	JODConverter
MS Excel	ODS	Data files (spreadsheets)	JODConverter
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# How will we know we have succeeded?

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- Can filter on records that we want to transform – records that do not already have a transformed version
- Can select an appropriate transformation strategy and apply it to any aggregate (series/transfer group)
- Can plug transformation tools into the framework and configure them correctly
- Can transform records to correct target format, based on transformation strategy
- Can conduct a trial run and archival run
- Can verify results of transformation via reports and visually
- Metadata of the derivatives will point to the correct originals and vice versa

# Demo

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# Lesson Learned

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- File identification – lack of signatures for some file types (EBCDIC)
- Metadata extraction – some of the things we want to know cannot be extracted with given tools
- Search – how to filter?
- Transformation issues – what constitutes a successful transformation?
- Process – frequent iterations and customer demos seem to have worked well



# Next Steps

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- NARA needs to hire records preservers to help us evaluate optimal tools and approaches
- Have LMC build the production version of the framework in Increment 4
- Add more formats and tools to the framework in Increments 4 and 5