

# ArchContract

USING SMART CONTRACTS FOR DISPOSITION

# Agenda

Introduction

Appraisal and disposition on blockchain systems

Using smart contracts for disposition

ArchContract Model

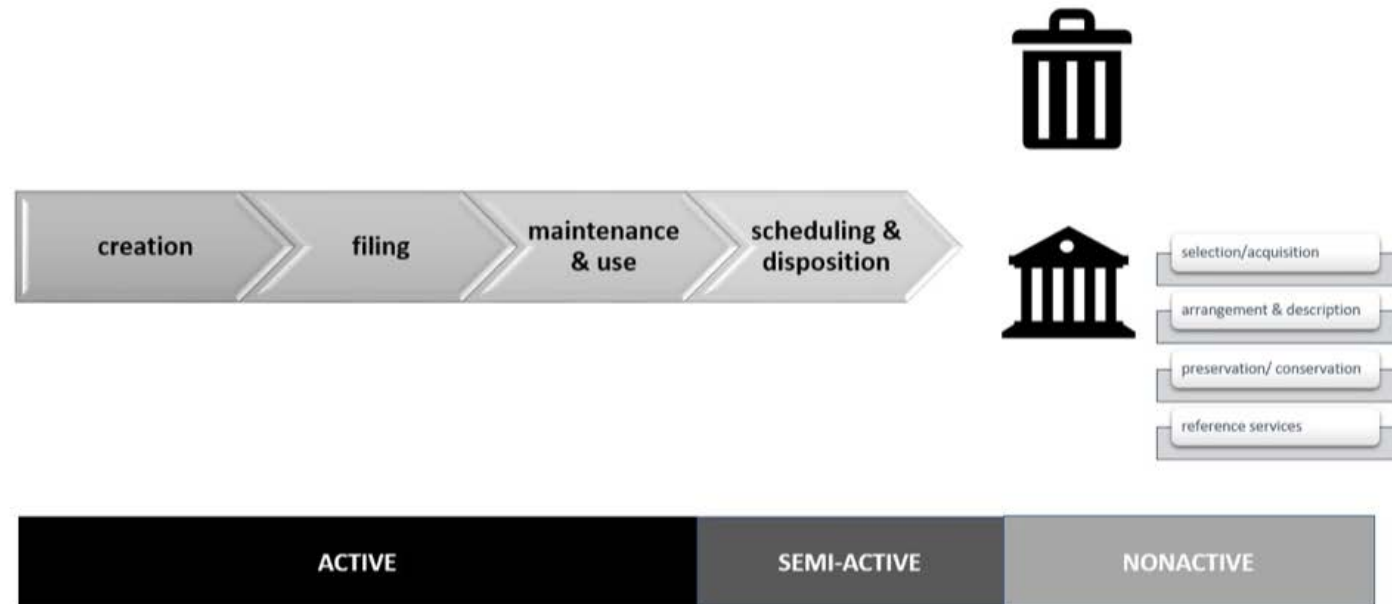
Conclusions

## Introduction

How best to utilize blockchain as a tool to improve the efficiency and effectiveness of records management?

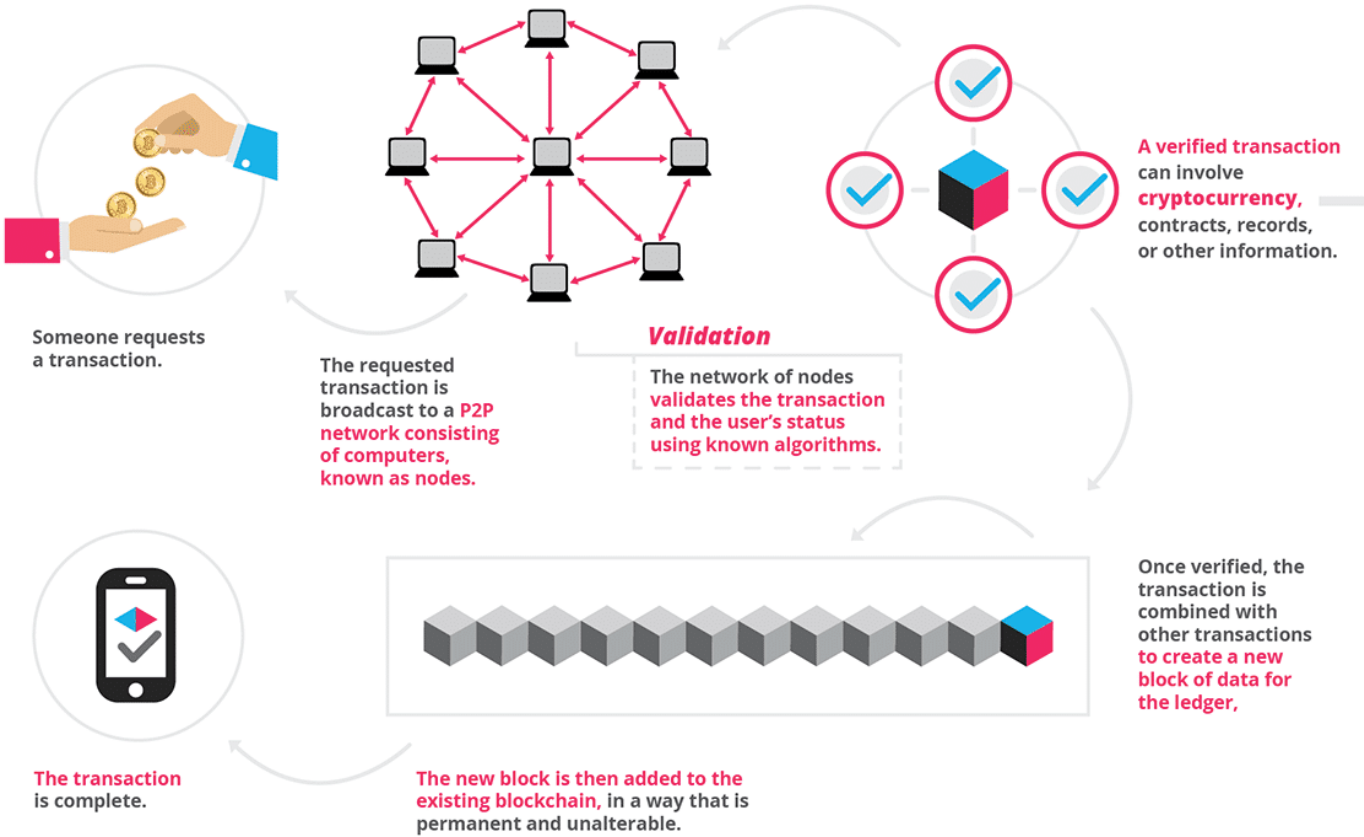
# Appraisal and Disposition on Blockchain Systems

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# Appraisal and Disposition on Blockchain Systems

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<http://blockgeeks.com/guides/what-is-blockchain-technology/>

# Appraisal and Disposition on Blockchain Systems

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1. The model we propose is executed through a blockchain platform;
2. An EDRMS is necessary
3. Records are stored off-chain
4. Trustworthiness of a record through space and time

# Appraisal and Disposition on Blockchain Systems

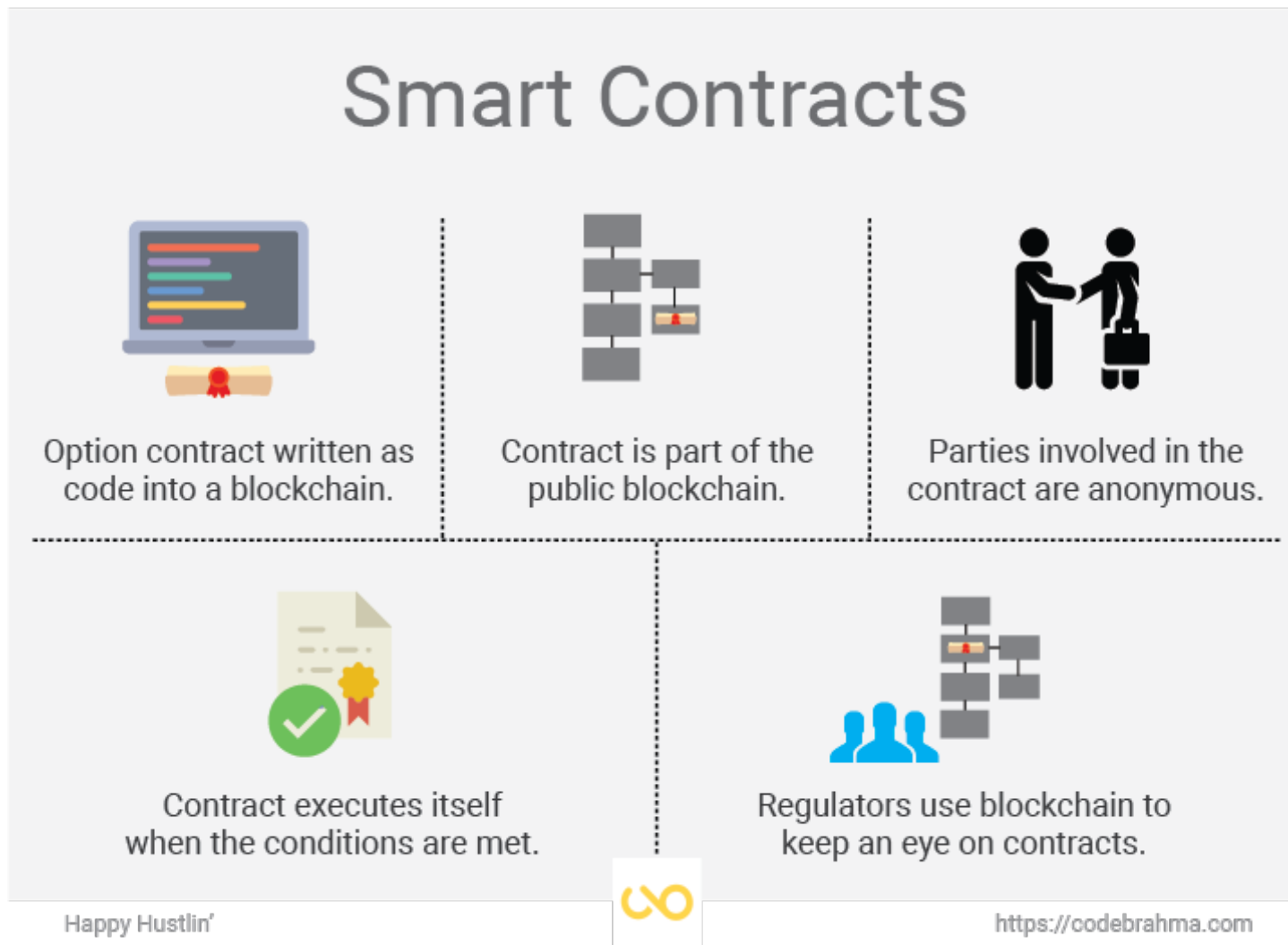
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<i>Organization</i>	<i>Archival Institution</i>
<ul style="list-style-type: none"><li>. Creation</li><li>. Filling</li><li>. Maintenance</li><li>. Use</li><li>. Disposition</li></ul>	<ul style="list-style-type: none"><li>. Acquisition</li><li>. Trusted repository</li></ul>
<ul style="list-style-type: none"><li>▸ Transfer the record to the archive</li><li>▸ Destroy records with no value</li></ul>	<ul style="list-style-type: none"><li>▸ Conferring the integrity of records received matching hashes</li><li>▸ Storing records in secure storage keeping its integrity</li></ul>

# Using smart contracts for disposition

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What is a smart contract?





# Using smart contracts for disposition

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AUTHORITATIVE  
RECORDS



FINAL  
DISPOSITION

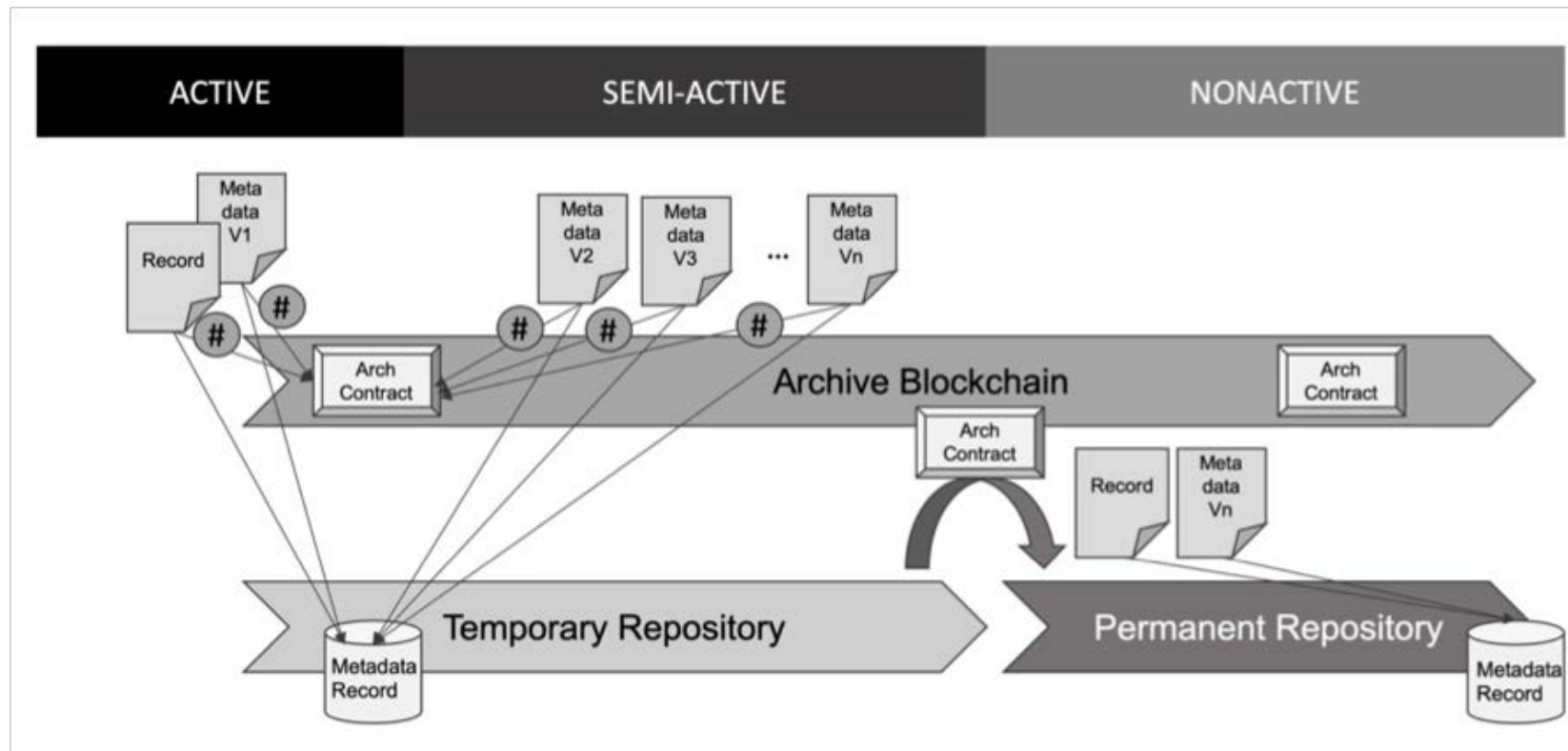


UPDATES

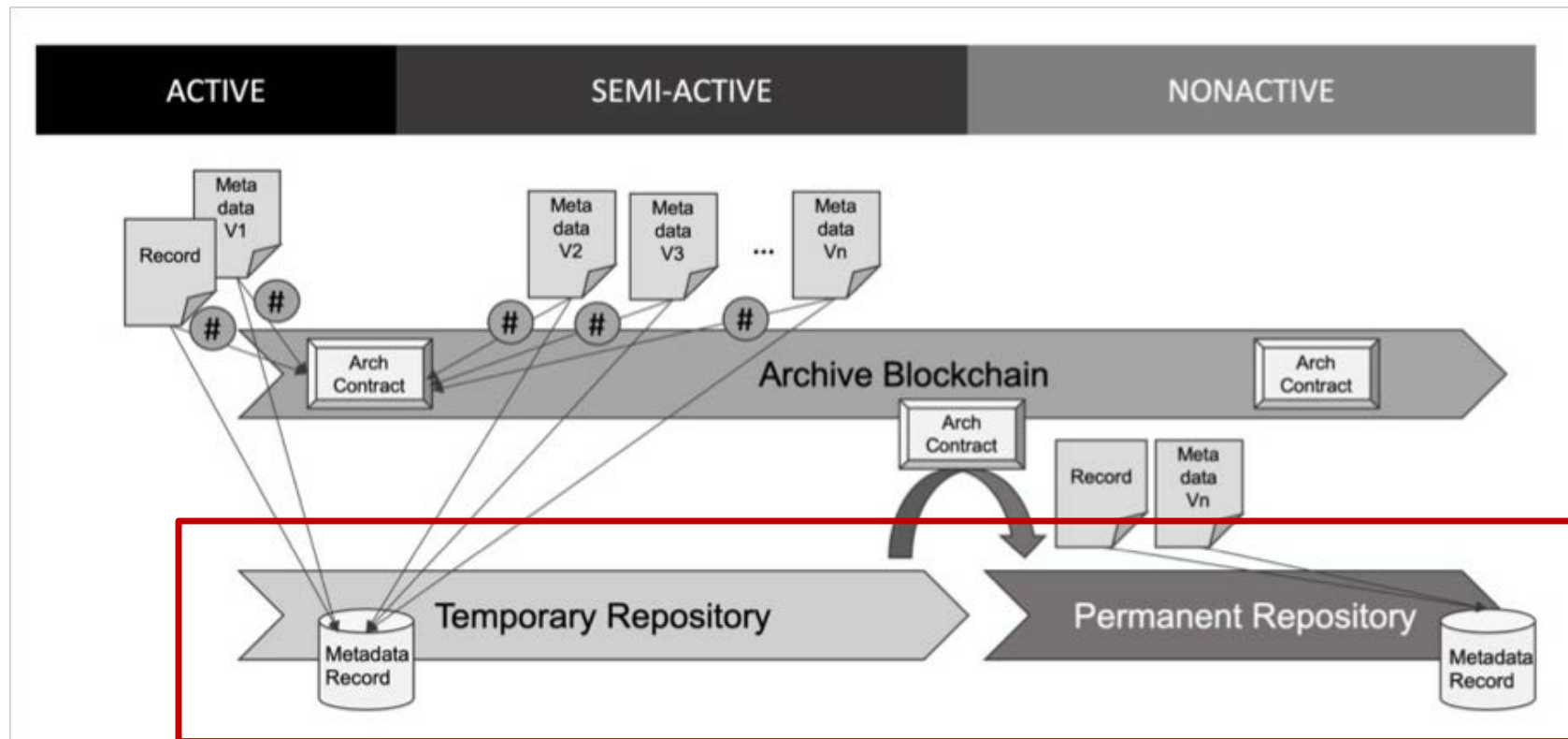


TRANSFER

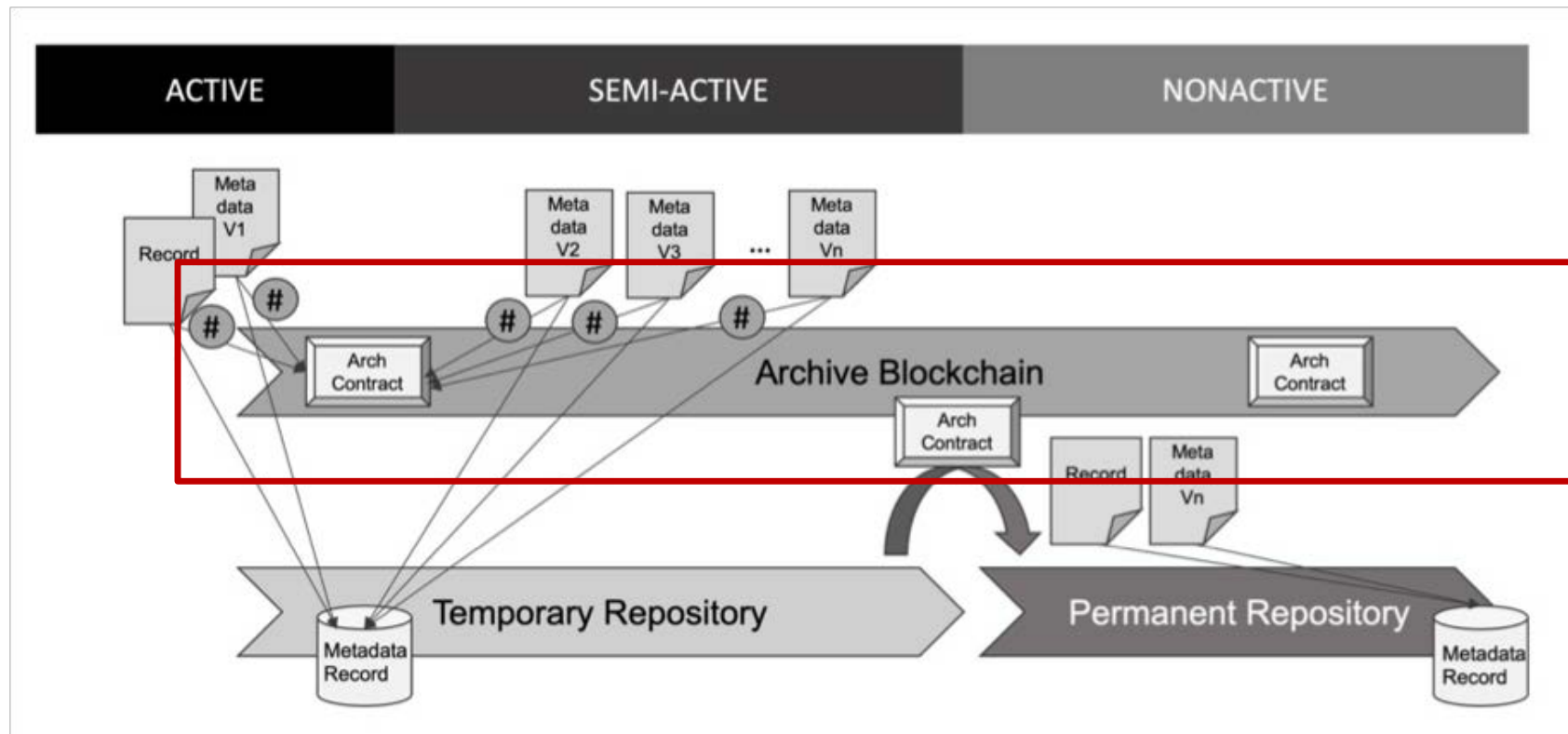
# ArchContract Model



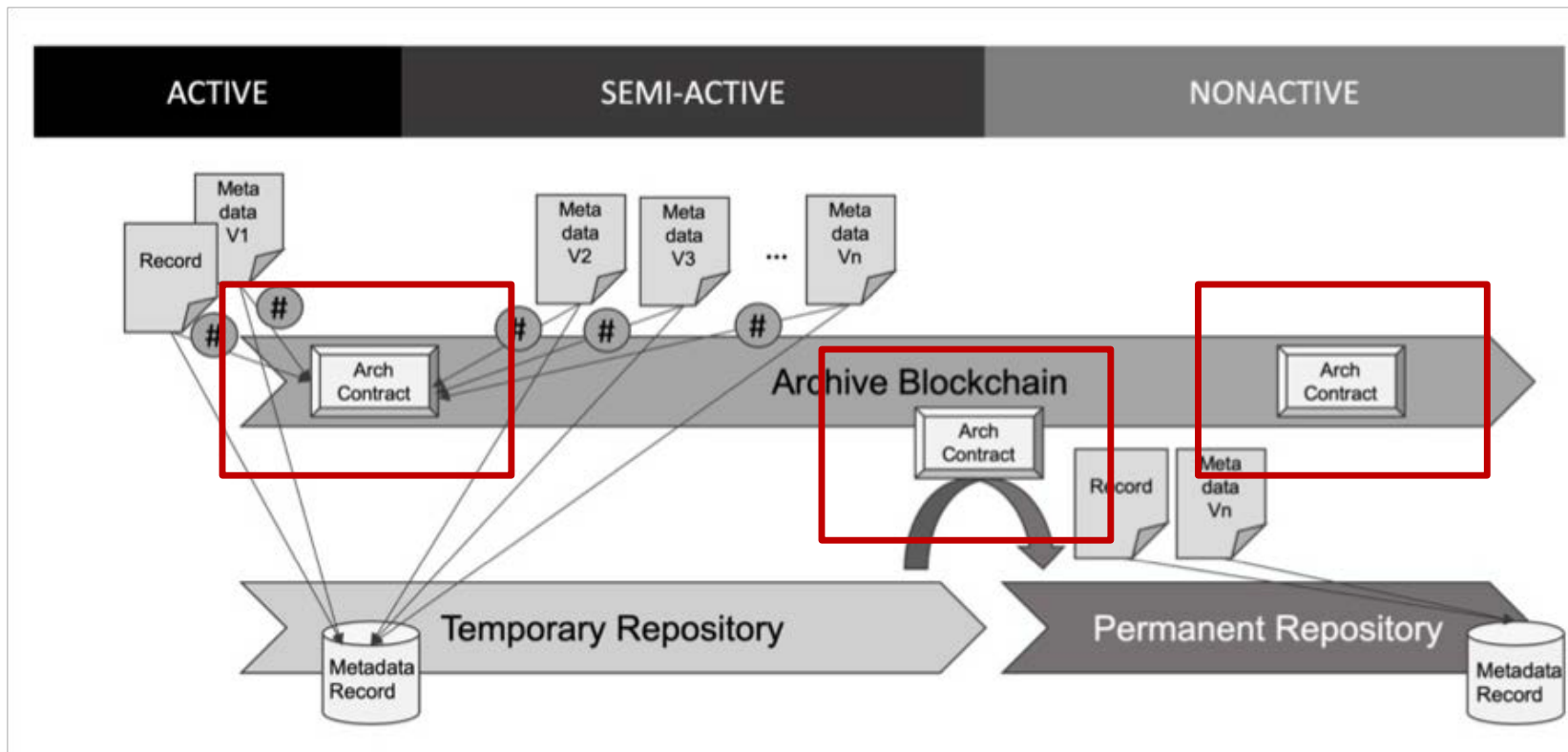
# ArchContract Model



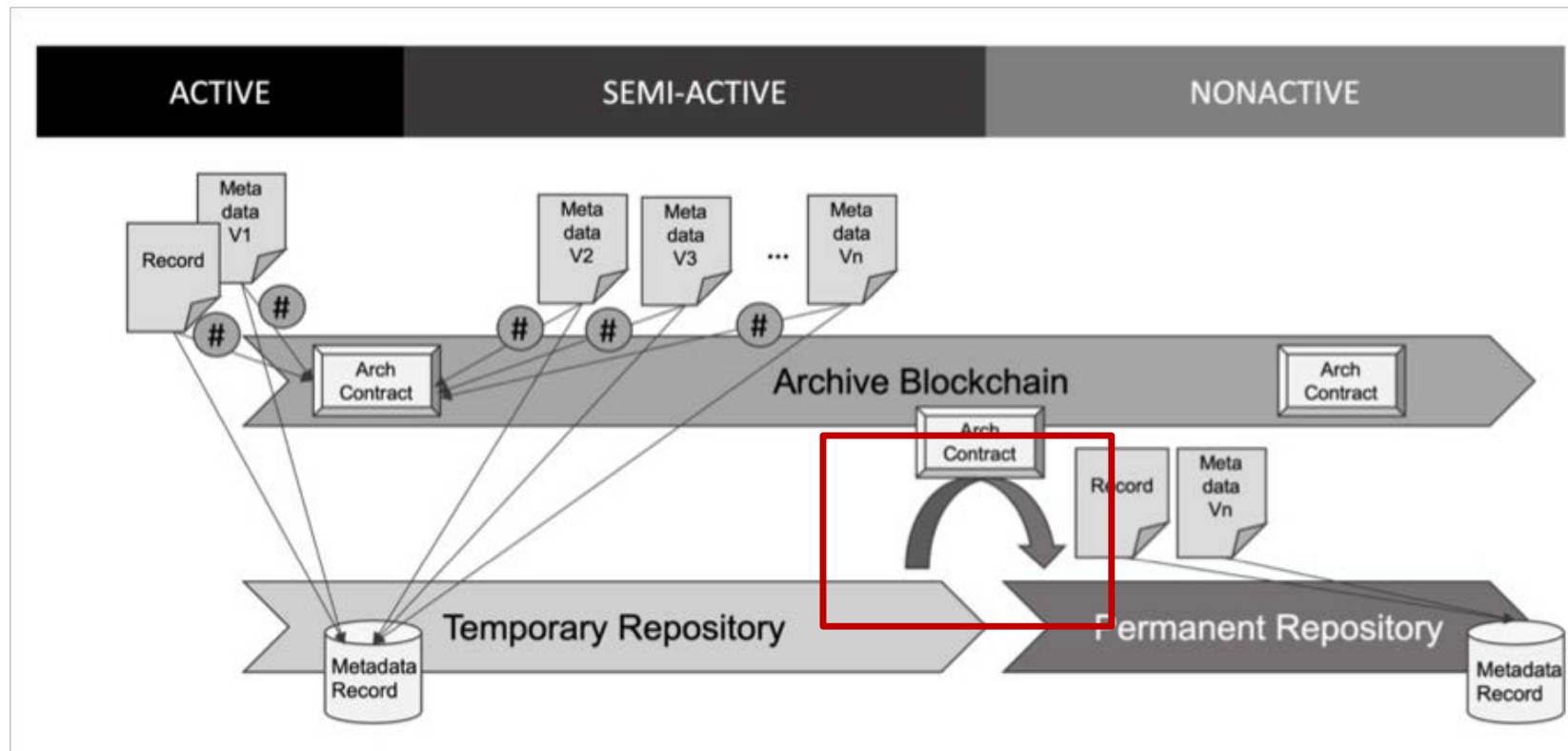
# ArchContract Model



# ArchContract Model



# ArchContract Model



# Conclusions

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- It is possible to execute disposition using smart contracts on a blockchain platform.
- Immutability is a problem but also can support integrity (as a requirement for authenticity).
- ArchContract: keep the link between records, metadata and their updated versions; presents a two-phase approach; promotes destruction and initiates the transfer to archives.
- Disposition can become more efficient and trustworthy.

# Questions?

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THANK YOU!

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