∧*AlphaLife Sciences

GenAl-Powered CSR Writing Automation with Quality Assurance

Company website: AlphaLifeSci.com







Pharma R&D Challenges

Higher Drug Costs

Average development \$2.3B in 2022, up by \$298M

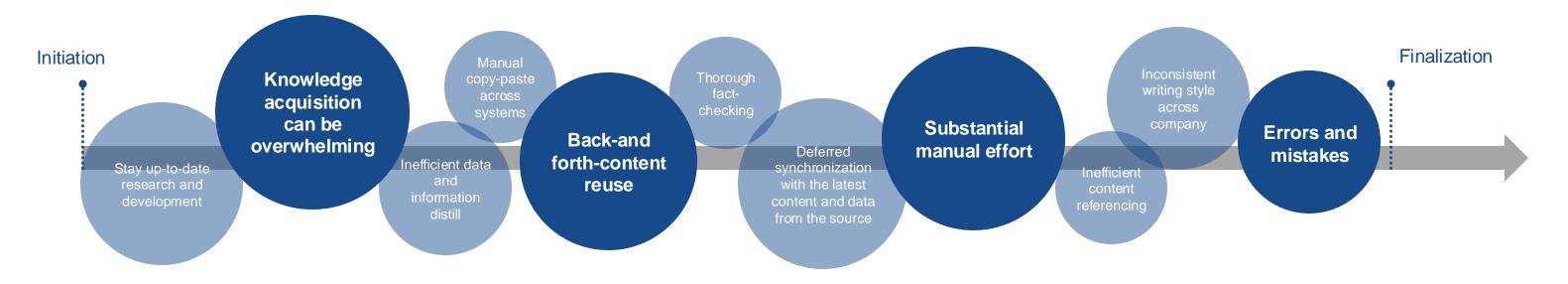
Narrow Value Window

Less time to recoup on new drugs—down 18 months to 9.8 years

ROI Decline

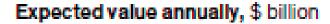
Average ROI at historic low of 1.2%

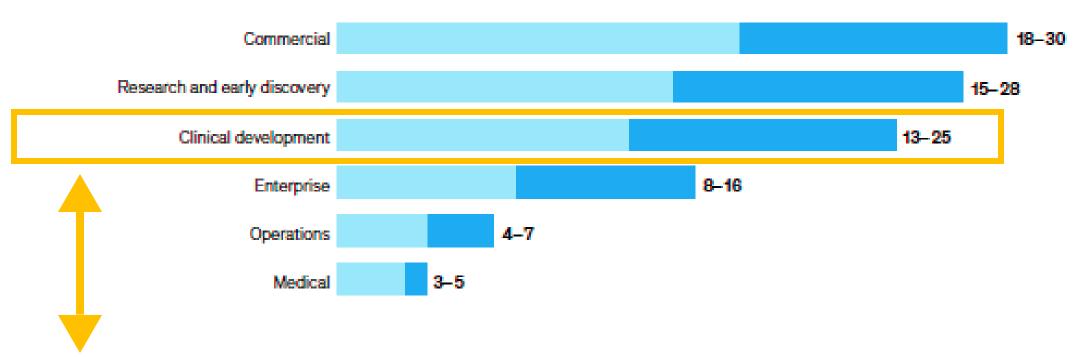
Medical writers face fragmented challenges in content creation



GenAl Expected to Generate \$13-\$25 Billion Annually in Clinical Development

McKinsey Analysis, Jan 2024





Opportunities

Submission Content

Writing

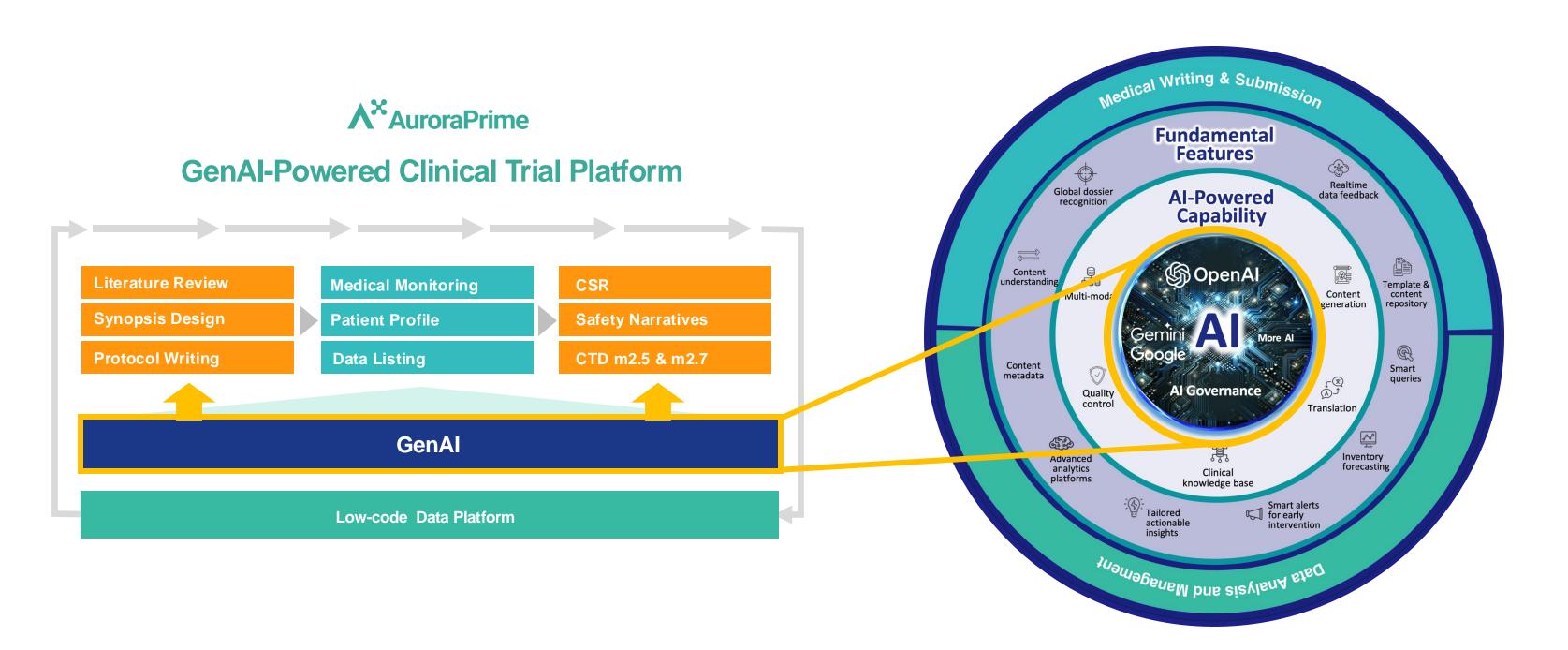
- 40% faster regulatory submissions
- 50% improvement in cost efficiency
- Two times reduction in quality issues

Smart Data Management 3

Trial **Performance Co-pilot**

Regulatory Intelligence **Engine**

Accelerating Clinical Trials with GenAl-Powered Medical Writing Solutions



Revolutionizing Clinical Trials with GenAl: Accelerating End-to-End Medical Writing

Using CSR as an Example

1

Accuracy Automation

GenAl-powered CSR writing with built-in quality control

2

Flexible Template Setup

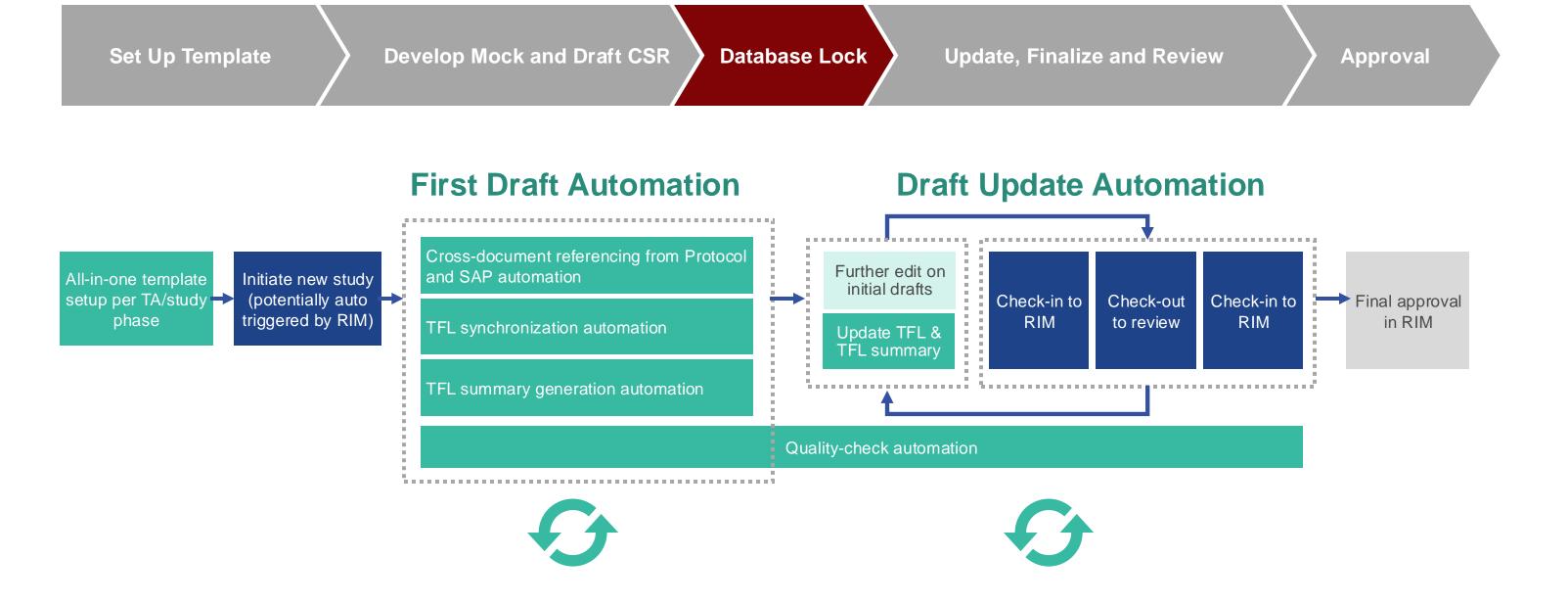
Easily configure templates for various documents and TAs, no coding needed.

3

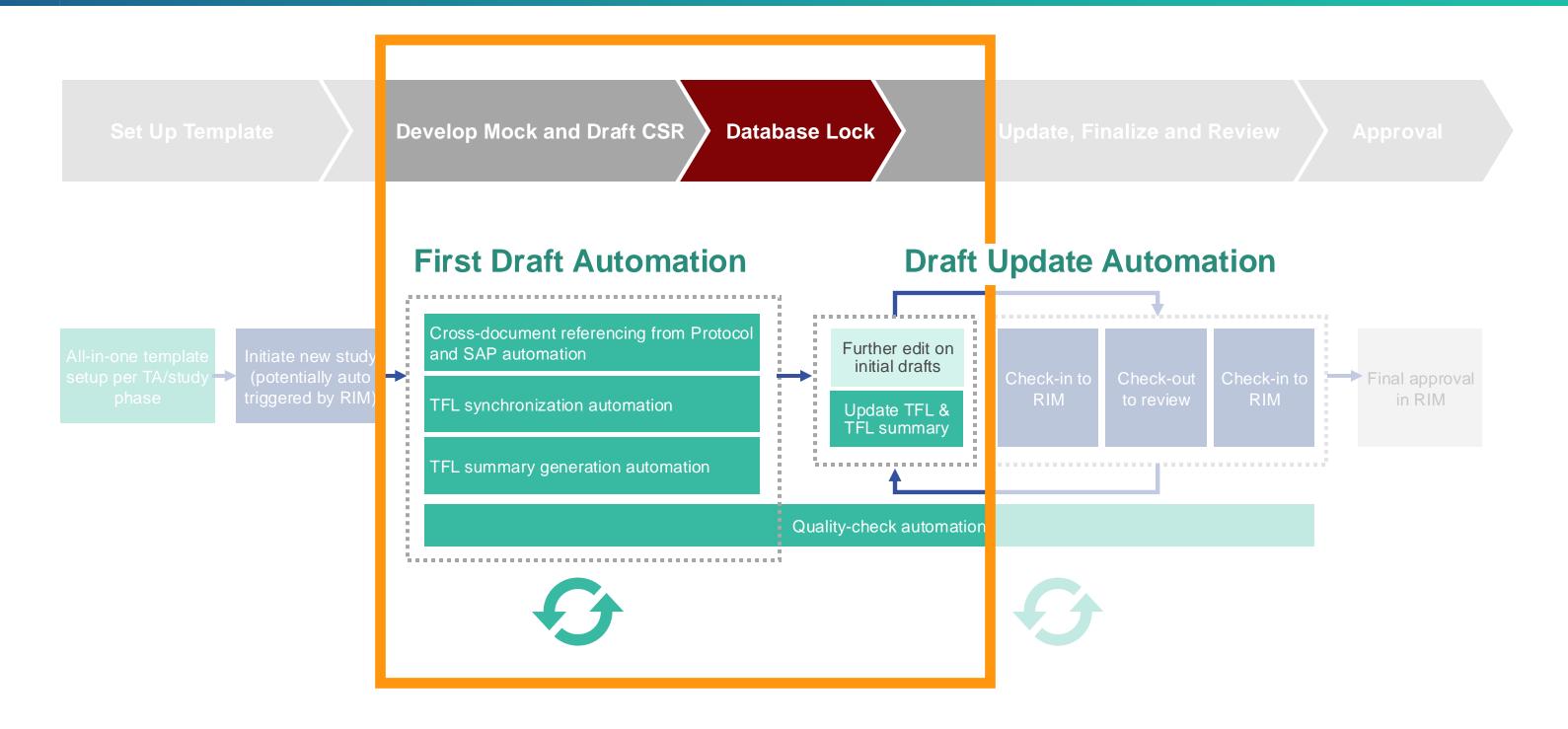
End-to-End Automation

Seamless integration to automate the entire CSR workflow.

Fully Automating End-to-End CSR Writing Process with Quality Assurance



CSR: Automatically Generates First Draft by Integrating Upstream Data and Documents



Using GenAl to Auto-Generate Data and Non-Data CSR Sections

Input Sources GenAl Capbilities Auto-Writes Content with Quality Assurance Chapter 1 Lean Writing, Content Reuse, Knowledge Distill • Chapter 2 Non-Data • Chapter 3 **Quality Check** Protocol • Chapter 4 Chapter 5 Statistical Analysis Plan • Chapter 6 Relevant Knowledge Base • Chapter 7 **AI-Powered** • Chapter 8 • Chapter 9 • Chapter 10 Data • Chapter 11 • Chapter 12 • TFL Data TFL Mock Shell Tracker TFL Summary Generation TFL Summary Update **Quality Check**

Using GenAl to Batch Auto-Generate Data and Non-Data CSR Sections

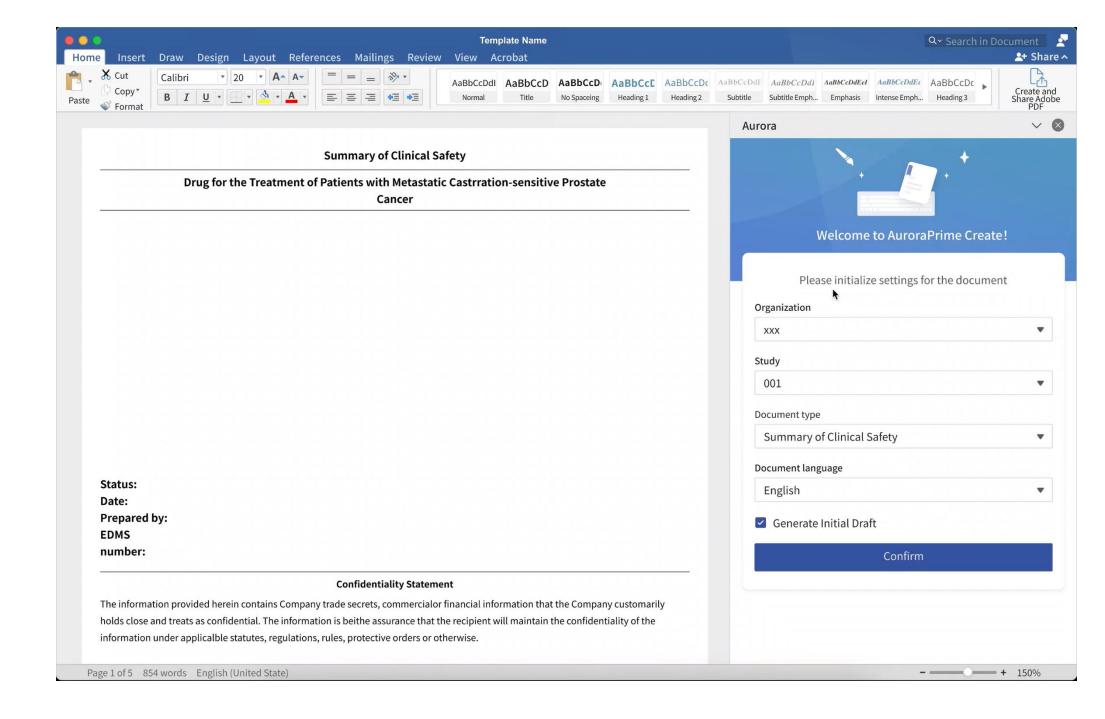
Organization-level CSR template

- 1. Sections, format/style, writing guidance, variables
- 2. Content reuse from Protocol and SAP configuration
- 3. Content generation examples for GenAl



Study-level document

- 1. Protocol and SAP file upload
- 2. TFL placeholder mapping and data sync
- **3. TFL** summary generation automation



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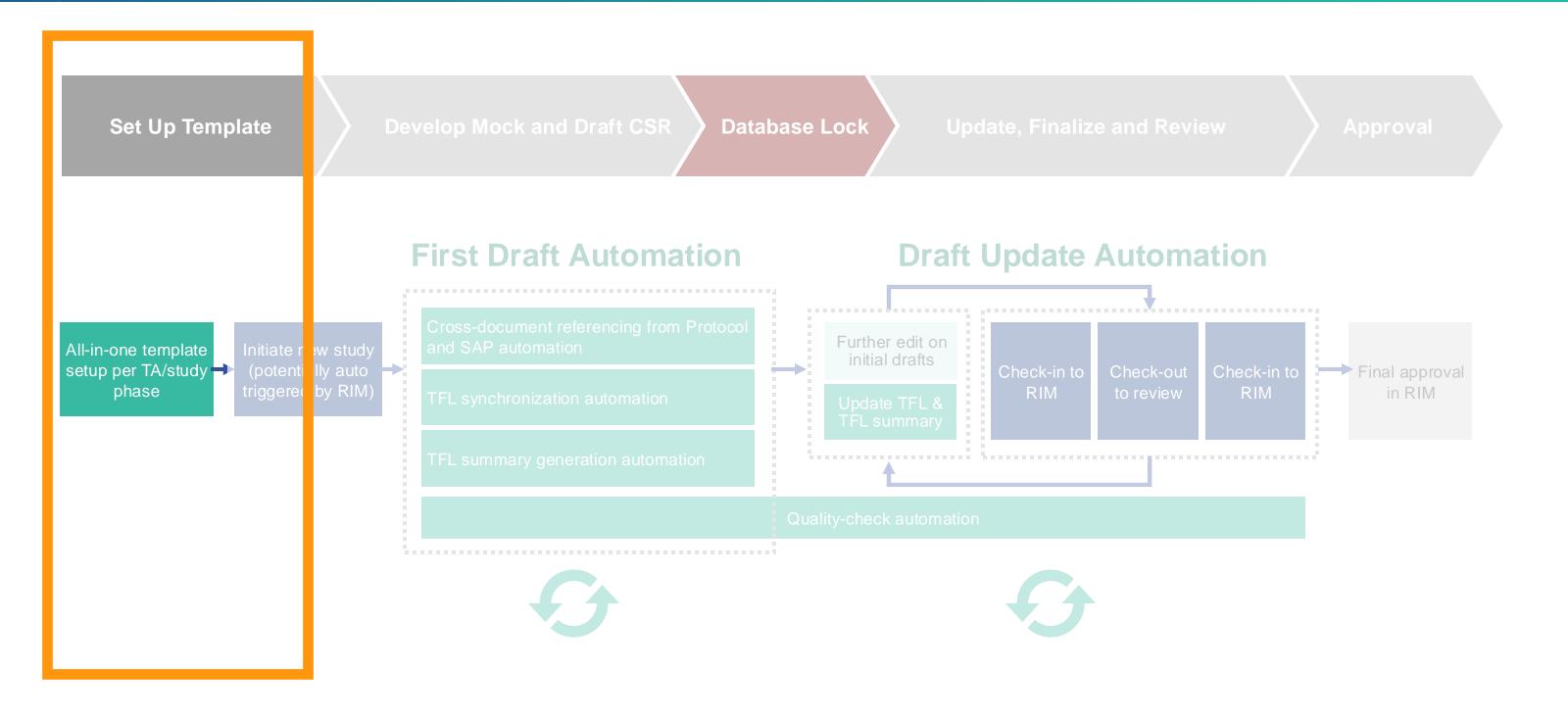
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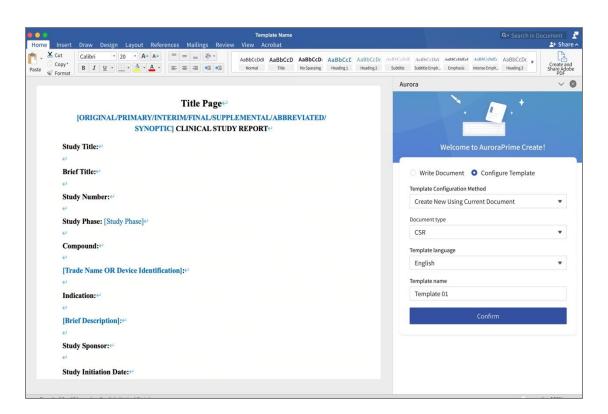
Flexible Template Setup to Accelerate CSR Writing with No Coding Required



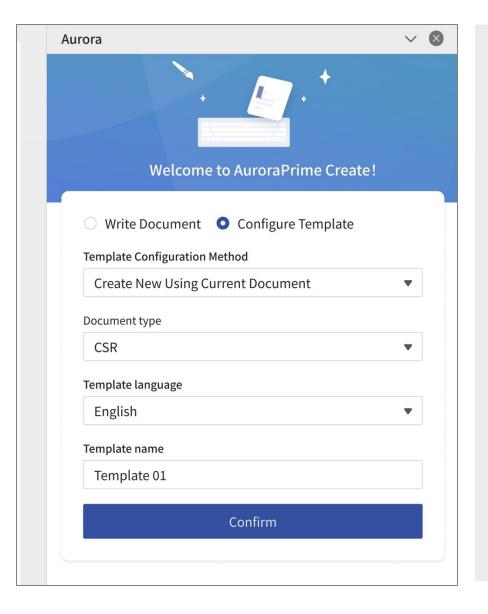
Any New Template Can Be Self-configured in 2 Days Without Coding

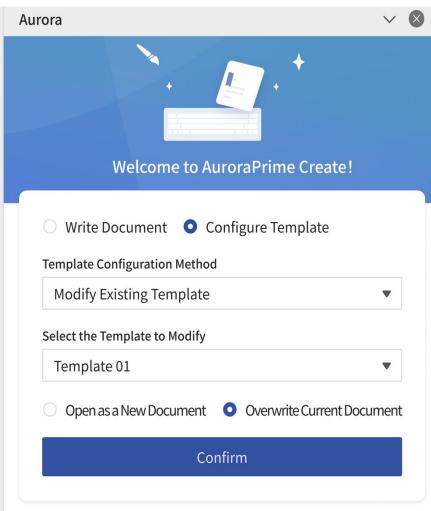
Organization-level document template

- 1. Sections, format/style, writing guidance, variables
- 2. Content reuse section configuration (Protocol and SAP)
- 3. Content generation examples for GenAl



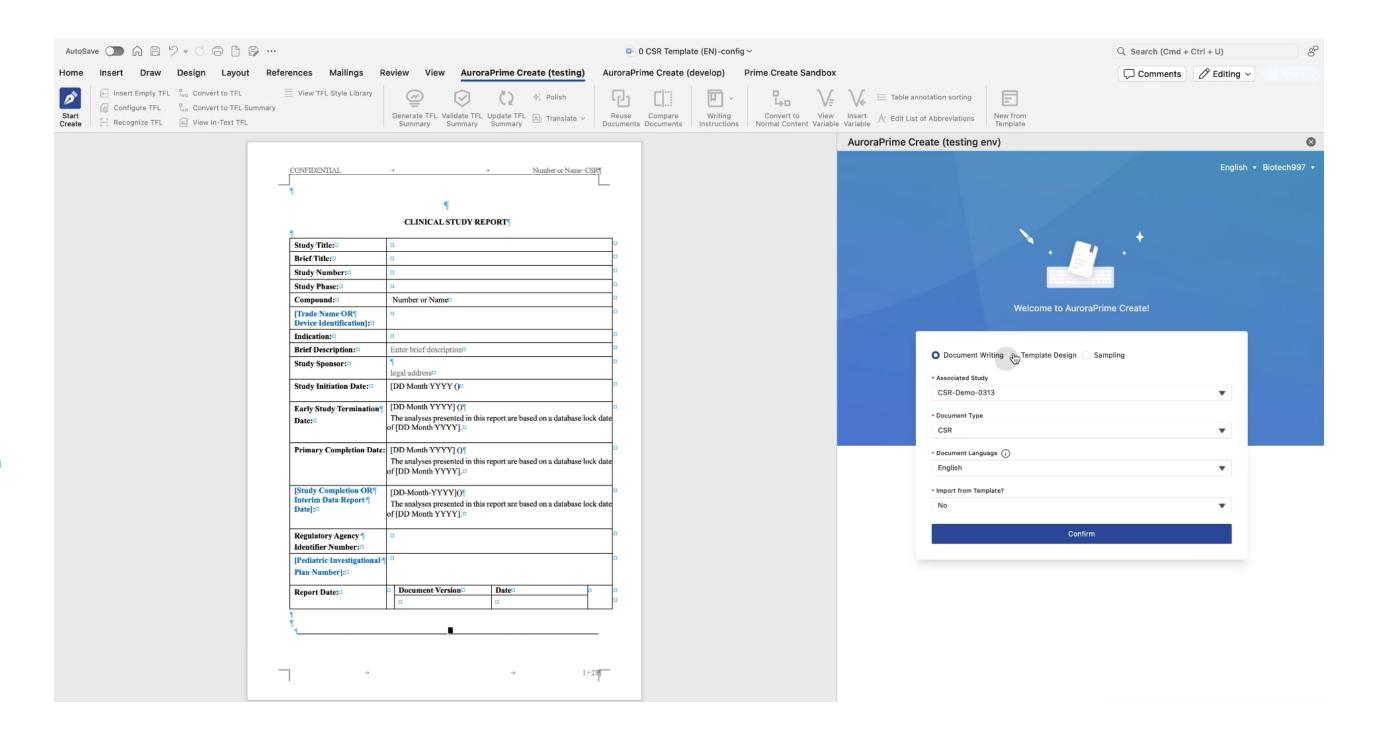
Configure Templates From Existing Documents or Existing Templates





Demo: Effortlessly Create Templates by Extracting from CSR Samples

- Historical CSRs are the best examples – Golden Data Sets
- 2. "Good" CSRs can be loaded to the Word and structured into TFL Summaries paired with TFLs
- 3. Easily extracted into
 Good Example
 database (library) with
 the corresponding
 meta data



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Flexible Template Setup

Easily configure templates for various documents and TAs, no coding needed.

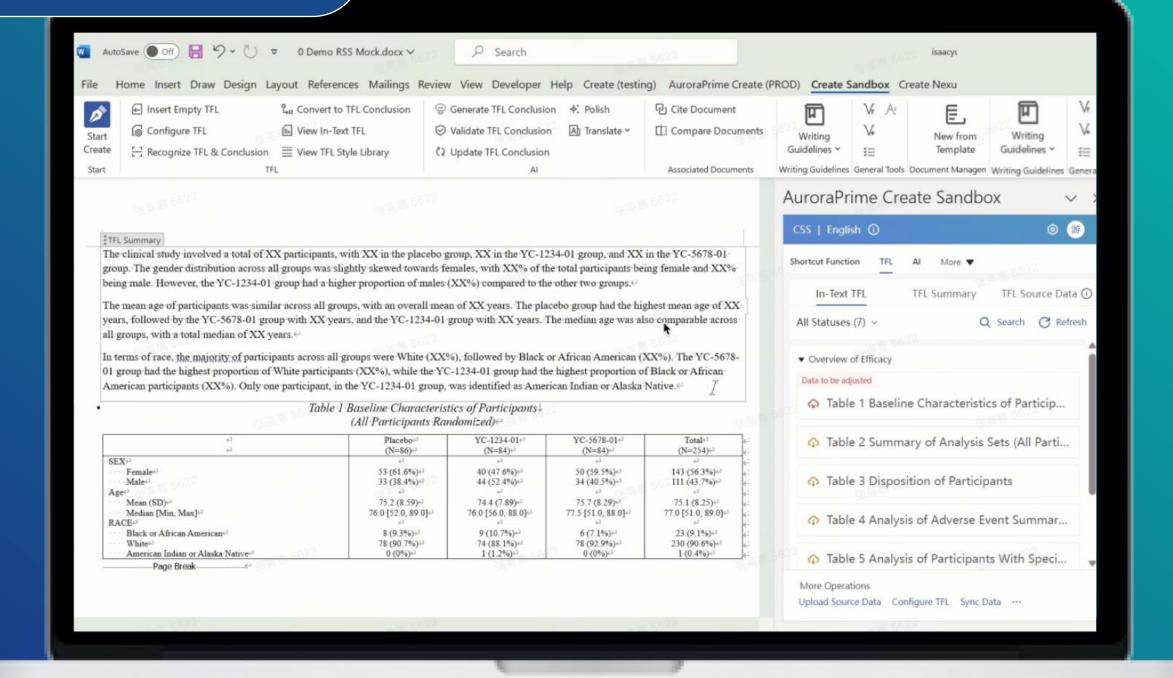
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End-to-End Automation

Seamless integration to automate the entire CSR workflow.

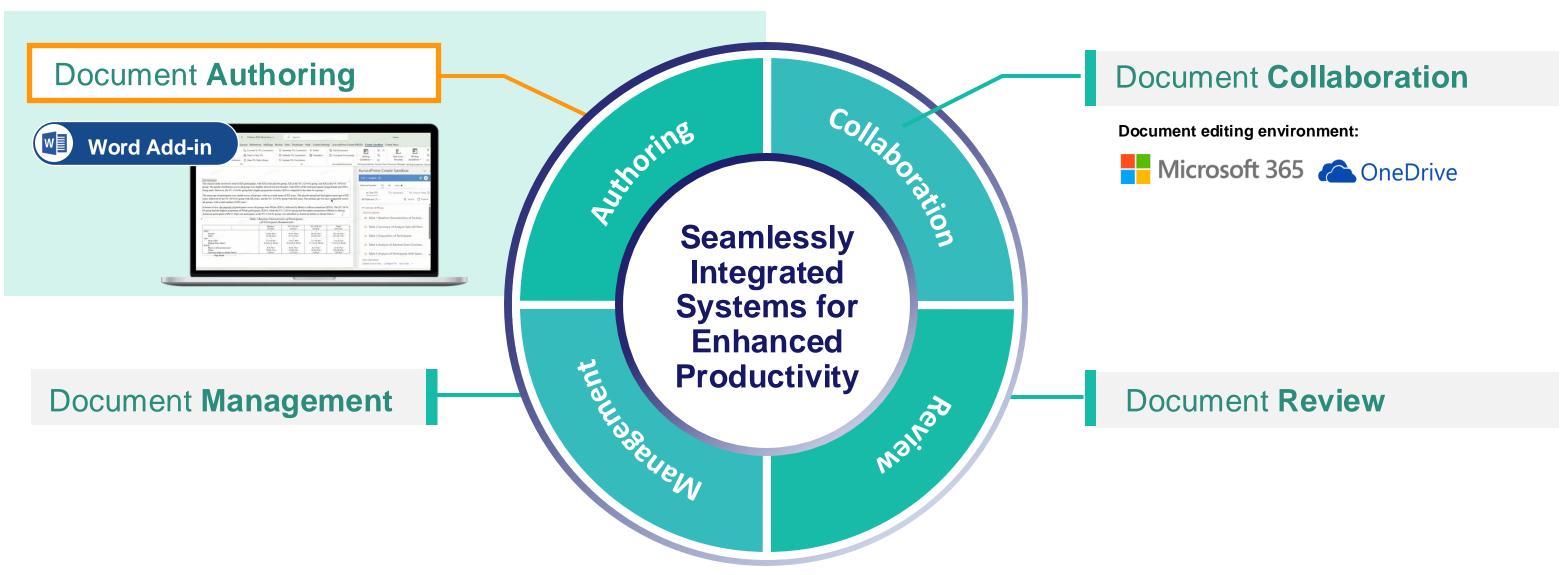


Word Add-in Solution

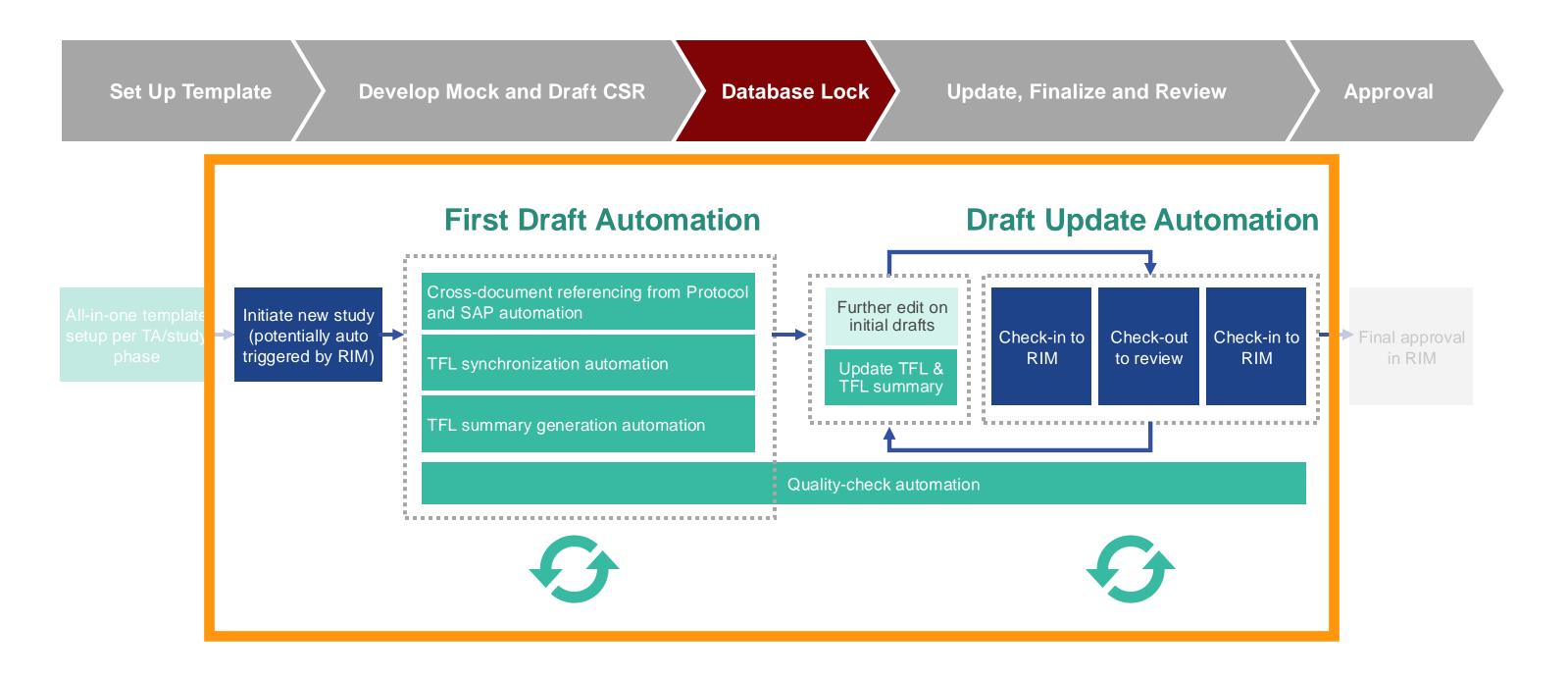


Seamless Integration of Document Systems to Streamline End-to-End CSR Creation





Automatically Pre-Processes and Generates CSR Content When Data Updates



Pilot Plan



Objectives

Efficiency increase and quality acceptance with confidence

- Product user flow and function verification
- Gain confidence in Algenerated content quality with client specific translation memory configured

2. Solution tailoring for production prediction and future working model's anticipation

- Plan and address identified requirements in agile approach
- Align on improvements in post-pilot and pre-production stage

Highlights



Fast add-in installation

Medical Writer, IT Specialist

- IT Specialist helps to install add-in from Microsoft App Source following installation guide
- Confirm the email invitation from userend to set up user access and roles

2

Minimum data required

NA

- Mock data is prepared from public source information to experience standard version of pilot
- Minimum input required for AI example and content template set-up. Most client's own data are pre-existing (for example RTF files for CSR)

3

Security and compliance

IT Specialist

- Standard information required from large pharma via questionnaires (refer to GCP Security and Compliance session for supporting info.)
- Rapid response and fully compliant to client's security standards

Customization Plan: Tailored Data Set and Template

Project Timeline				Week 1			Week 2					V	Veek	3		Week 4						
			D1	D2	D3	D4	D5	D1	D2	D3	D4	D5	D1	D2	D3	D4	D5	D1	D2	D3	D4	D5
SETUP	1. User accounts	Confirm client users for AuroraPrime																				
		1.1 Client provides user emails																				
		1.2 Alphalife enables user access																				
	2.Configurations	Configure environment in AuroraPrime based on input materials																				
		2.1 Client sends materials and provide specifications or requirements																				
		2.2 Alphalife pre-configures template and data-set																				
	3. Training	Deliver Aurora Prime system training																				
		3.1 Alphalife provides training with hands-on practice																				
UAT	4. UAT	Conduct Aurora Prime UAT for POC																				
		4.1 Client conducts user acceptance testing																				
		4.2 AlphaLife conducts interations on selected features																				
	5. Communication	Communication plan during conducting Pilot																				
		5.1 AlphaLife provides Q&A and trouble shoot through Teams or emails																				
		5.2 Weekly meetings for project governance and steering																				
		5.3 AlphaLife provides pilot exit report and post-pilot plan																				

Pilot support team



Product Specialist

Provides training services, guides function testing during UAT.



Project Manager

Oversees planning, execution, and delivery, ensuring the system meets client requirements, timeline, and budget constraints.



Tech Support

Deployment, releases, and IT support



Tech Lead

Understand and clarify business requirements; manages technical aspects of project planning and execution; AI and Infra.

Customization Plan: Tailored Data Set and Template

Data/Meeting Requests	Format	Description					
CSR template	Word	Must have					
Finalized statistical TFL outputs	rtf	Must have					
Protocol and SAP	Word	Must have					
In-text/post-text TFL presentation mapping file	excel/word	If applicable					
Historical full CSRs to tune TFL summary prompts (1-2), better to have historical TFL outputs paired	Word	Must have					

- 1. Template is configured per client requirement: selected TA/study phase, or harmonized template
- 2. TFL, Protocol, SAP are aligning with the target CSR that to be tested

Standard Plan: Default Data Set and Template

Project Timeline			Week 1					Week 2				
			D1	D2	D3	D4	D5	D1	D2	D3	D4	D5
SETUP	1. User accounts	Confirm client users for AuroraPrime										
		1.1 Client provides user emails										
		1.2 Alphalife enables user access										
	2.Configurations	Prepares pilot environment in AuroraPrime										
		2.1 Alphalife prepares pilot enviroment										
	3. Training	Deliver Aurora Prime system training										
		3.1 Alphalife provides training with hands-on practice										
UAT	4. UAT	Conduct Aurora Prime UAT for POC										
		4.1 Client conducts user acceptance testing										
	5. Communication	Communication plan during conducting Pilot										
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Thank You

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