

How to Create a Gen Al-Enhanced Proposal Library for Winning Government Contracts

Olessia Smotrova and Christian Ferreira





Welcome and Introductions

- Speakers: Christian Ferreira (Procurement Sciences) and Olessia Smotrova (OST Global Solutions)
- Your competition is using Gen AI to write proposals - what are your actions?



Olessia Smotrova, CF APMP Fellow

Chief Strategy Officer
OST Global Solutions



Christian Ferreira
Founder/CEO
Procurement Sciences Al





Problem

- Many organizations are "data hoarders" – sitting on mountains of past proposal content that never gets revisited
- Businesses at levels 1 through 3, "Ad Hoc" trough "Defined," keep this data across multiple employee's computers and cloud spaces and haven't consolidated it into one organized Library

OST GLOBAL SOLUTIONS



BUSINESS DEVELOPMENT AND AI INTEGRATION MATURITY LEVELS

6 DIFFERENTIATED

COMPETITIVE DIFFERENTIATION DRIVES LIFETIME CLIENT BASE. AI AUTOMATION RESULTS IN MAXIMUM VOLUME AND QUALITY.

5 OPTIMIZED

STANDARD BD PROCESSES ARE IMPROVED USING DATA DRIVEN BY FIRM, GROUP, AND INDIVIDUAL GOALS. AI AUTOMATION REACHED.

4 QUANTITATIVELY MANAGED

STANDARD BD PROCESS IMPLEMENTED THROUGHOUT THE FIRM, MEASURING WHAT MATTERS. AI EMBEDDED IN STRATEGY.

3 DEFINED

STANDARDIZED BD PROCESS IN POCKETS WITHOUT ORGANIZATIONWIDE PROCESS IMPROVEMENTS. AI BECOMES OPERATIONAL.

2 REACTIVE

CHAOTIC AND TACTICAL, RESPONDING BASED ON INDIVIDUAL PERFORMANCE. EXPERIMENTATION WITH MAINSTREAM AI.

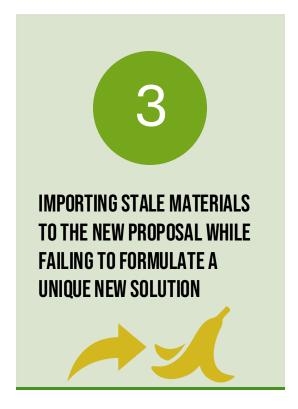
AD HOC

UNORGANIZED. AUTOMATICALLY AT THIS MATURITY LEVEL. INTERESTED IN AI.

Traditional Boilerplate Reuse Process Is Fraught With Issues













Alls the Solution

- Working with boilerplate is like shoveling mounds of trash into the proposal trying to dig through and find gems in it
- Surgical approach of finding relevant concepts and statements is a lengthy process – so much that many prefer to write from scratch rather than reuse and recycle

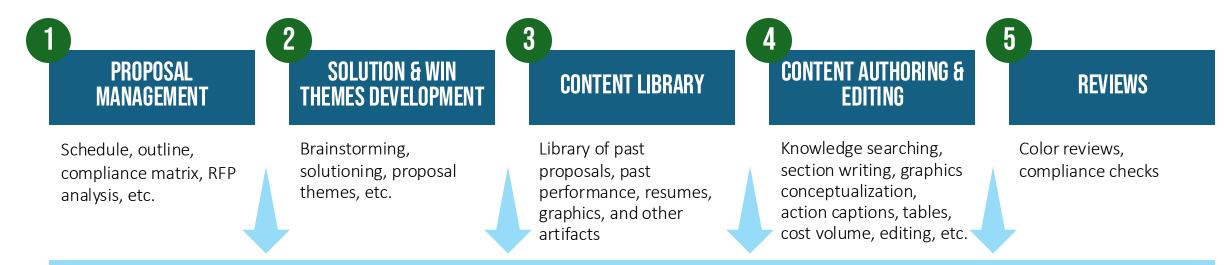


AI IS LIKE A HIGH-SPEED ARCHEOLOGIST DIGGING THROUGH YEARS OF PAST PROPOSALS UNEARTHING TREASURES AND TRANSFORMING THEM INTO HIGHLY RELEVANT CONTENT MUCH FASTER THAN A HUMAN COULD





Five Components of Successful Al Integration Into the Proposal Development Process



INTEGRATION WITH COLLABORATION PLATFORMS SUCH AS SHAREPOINT, TEAMS, OFFICE, OUTLOOK, BROWSERS





Gen Al 101: Introduction to Generative Al

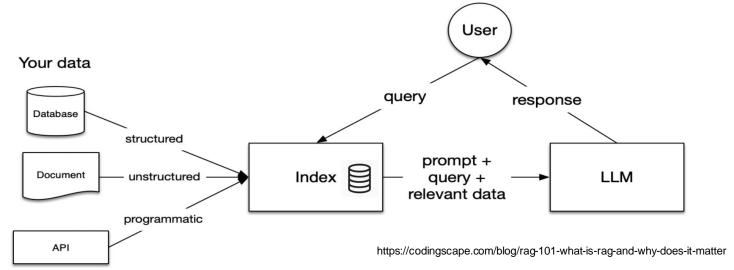
Generative Al: Artificial Intelligence that can create new content, including audio, code, images, text, simulations, and videos.

- Large Language Model (LLM): The core component of AI systems that power Generative AI capabilities. These
 models are trained on large datasets and come in various types, such as OpenAI's GPT Series, Anthropic's Claude
 Series, and Meta/Facebook's LLAMA Series.
- Natural Language Processing (NLP): A method for interacting with LLMs using natural language text input and output, mimicking human communication.
- **Semantic Searching:** Finding information by understanding the meaning behind words, not just the words themselves. It is the next evolution of the Control+F word search.
- Retrieval Augmented Generation (RAG): An algorithm that allows company data to be retrieved and used without the risk and high cost of training a custom LLM.
- Hallucination: When an AI responds with inaccurate information that sounds convincing to the user.
- Al Prompting: A natural language command given to the Al.
- Prompt Engineering: The advanced formatting of prompts to achieve stronger responses and reasoning.





Gen Al 101: Enhancing Proposals w/ Company-Aware Al



Benefits of Retrieval Augmented Generation (RAG) for Proposals and Information Retrieval:

Accuracy: Ability to cite the sources of information.

Affordability: RAG doesn't require large expenditures to train custom models.

Security: Data is held in a private vector database and is not available for the LLM to use for training, ensuring your information remains confidential and secure. *Check w/ AI Software Providers*

Data Control: You choose what data to use, whether it's a set of specific files or all company files.

Ease of Management: Simple process for updating and managing the content the AI can and cannot use.

Speed to Value: Quick implementation with virtually instant results.

Flexibility: Leverage continuous breakthroughs in foundational models without being locked into a single outdated model.





Gen Al 101: Best Practices for Using Al in Proposals

Generative AI: A predictive algorithm that tries to generate the best answer based on the provided knowledge or training dataset.

Deterministic Algorithms: Use logic to build answers, offering less creativity but greater accuracy.

Right vs. Wrong Times to Use Generative AI:

Right:

- ✓ When a human is involved to review content.
- ✓ When you need creative and unique content generation.
- ✓ When aiming to add efficiency to the first drafts of various deliverables.

Wrong:

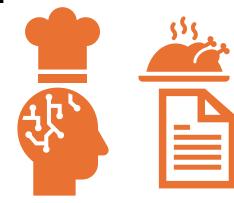
- For cost volume calculations without heavy review.
- For mission-critical answers where a human is not reviewing.
- For using it as an "easy button" to do your work.





How an AI-Augmented Proposal Library Will Help You Leverage Previously Written Proposals

- Al helps transform static, passive content into an active, strategic asset with your existing knowledge library
- Al is not just finding and copy-pasting old content
- It is transforming high-value strategies, narratives, and win themes that worked before into the currently relevant solutions



AI IS LIKE A MASTER CHEF REMIXING INGREDIENTS FROM 20 PREVIOUS RECIPES TO CREATE A DISH THAT'S BETTER THAN ANY ONE INDIVIDUAL RECIPE

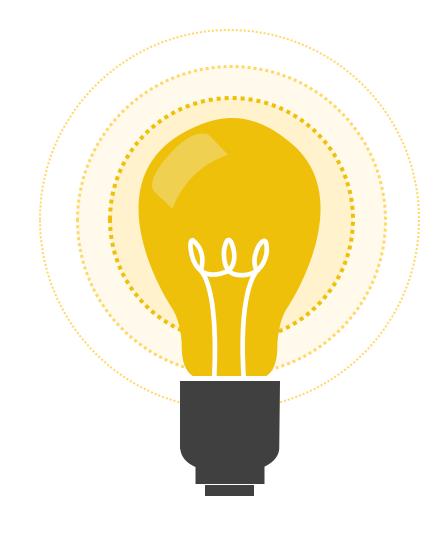
...AND SIMULTANEOUSLY TAILORING IT TO THIS ONE CUSTOMER'S PICKY EATING PREFERENCES AND FOOD SENSITIVITIES TO CREATE SOMETHING COMPLETELY UNIQUE





Easiest Al Tasks

- The easiest proposal tasks AI can perform and save time is to find the right past performance examples, references, graphics, and resumes
- An Al-augmented proposal library also simplifies the hardest tasks such as win themes development, section content brainstorming, and text and graphics generation



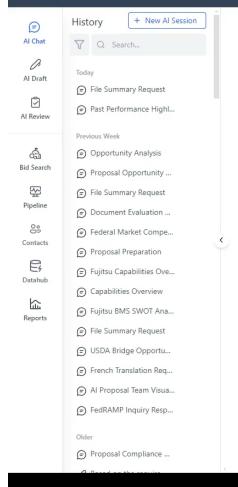














Save Time, Win more!

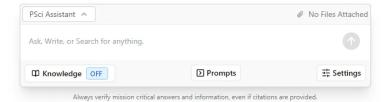
Start discovering opportunities, unlocking solicitations, gaining insights, and managing your proposals effortlessly today.

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Book a Training Call





Creating Your Content Library for Al Purposes

- Upon proposal completion, archive:
 - Source and PDF proposal files
 - RFP and amendments
 - Delivery receipt
 - Lessons learned results, win/loss debriefs, and info on competitors that won
- Delete redundant or unnecessary documents to save space and make relevant information easier to retrieve
- To protect the integrity of your files, implement a Security Plan defining access to the documents and levels of authority to modify, move, or delete the documents



SET UP YOUR DIRECTORY WITH A CLEAR

NAVIGATION AND FILE NAMES SUCH AS YYYY ->

AGENCY -> PROPOSAL NAME_VOLUME_FINAL_DATE

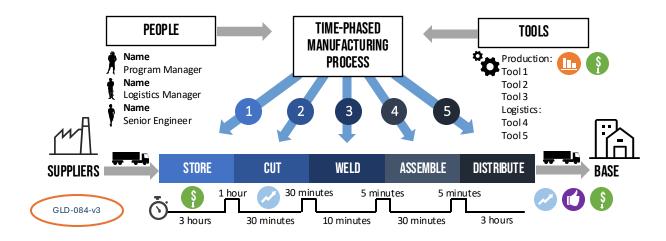
KEEP PINK, RED, AND GOLD TEAM VERSIONS ALONG WITH THE FINAL





Special Libraries

- Graphics library with source files
- Past performance library (yours and teammates') that includes statements of work and scope modifications
 - Using AI to restructure information
 - Giving it past proposals to extract past performance
- Resumes library
- Prompt library



TIP FOR GRAPHICS LIBRARY: USE UNIQUE PROPOSAL NAME ABBREVIATION, GRAPHIC NUMBER, AND VERSION NUMBER IN THE FILE NAME AND ON THE FACE OF THE GRAPHIC VISIBLE IN THE PROPOSAL FOR EASIER SEARCHES.





Library Collateral for AI Use

Example Sections for Prompts

- For structured document authoring, AI prompting is best done using cut-and-pasted examples into the prompt vs. attaching the document or automatic library retrieval
- Executive Summary
- Management Section
- Management Section Checklist
- Technical Section
- Technical Section Checklist
- Cost Volume Narrative with:
 - Cost baselines to support technical volume templates
 - Cost models and Basis of Estimate (BOE)s

Model Plans

- IMP/IMS
- Risk Plan









- Quality Control Plan and QASP
- Transition Plan
- Recruitment and Retention Plan
- Procurement Plan
- Safety
- Travel
- Staffing Plan
- Mobilization Plan
- Subcontractor Management Plan
- Systems Engineering Management Plan
- Integrated Logistics System Plan
- Training Plan
- IT Plan
- Continuity of Operations/Contingency Plan
- Security Plan
- Sustainability Plan



More Collateral







Proposal Management Aids

- Proposal manager's checklists
- Outline
- Compliance matrix
- Kickoff slides
- Proposal schedule for typical durations
- Contact list template with proposal team's information
- List of proposal resources (internal, consultants, teammates) with contact information
- Abbreviated and detailed style guides for writers and editors
- Collateral for running color reviews (kickoff and debrief decks for pink and red teams, reviewer forms, process)
- Structured lessons learned process that passes on the lessons learned to support new proposals

Master Proposal Documents

- Cover and title sheet
- Proposal template with custom toolbars
- Nominal WBS template
- Schedule
- ROM
- Cost volume
- BOEs
- BOM
- Pre-prepared estimating rules (e.g. for "training" costs, other frequent deliverables)
- Transmittal letter





Additional Collateral

- "Golden nuggets"
 - Reusable win themes
 - Customer kudos
 - Relevant studies that you may want to reference such as Gartner Reports
 - Accomplishments and certifications details
- Marketing and Capture Collateral
 - Technical and management solution development checklists
 - White papers developed by technical gurus that relate to the specific areas this IDIQ or GWAC covers
 - Vehicle-specific capability statement
 - Case studies
 - Capability statements
 - Other information your BD or program staff can hand to the customer for them to get to know you better and to build trust
 - Win Strategy White Papers
 - Competitive analysis deck
- Just-in-Time training materials











Techniques for Maintaining Up-to-Date and Accurate Content

- Select a champion responsible for organizing, updates, and cleansing
- Cleanse the data monthly

Data cleansing involves removing or correcting inaccurate, incomplete, or irrelevant data.

Enhances the quality of AI-generated outputs by ensuring the input data is clean and accurate.

Remove all irrelevant and piecemeal proposal sections, leaving only the color review versions

Remove automatically saved old document versions

Delete older versions of the graphics unless they are useful content-wise







Al to Classify and Tag Your Library

Classification:

The process of categorizing data into predefined groups or classes.

Ex 1: Transition Plan

Fx 2: Resume

Helps in organizing data into meaningful categories, making it easier to manage and retrieve.

Streamlines data management and improves the Al's ability to generate contextually accurate responses.

Tagging Data:

Labeling your data with relevant keywords or categories.

Ex: Transition, recruitment, onboarding, mobilization, U.S. Army, C-TNOSC

Ex 2: Ph.D, TS-SCI, Engineering, PMP

Helps in organizing and retrieving information quickly and efficiently.

Improves searchability and ensures that the AI can easily identify and use the most









Steps For Using AI to Cleanse, Tag, Build a New Library

1. Collect

2. Cleanse

3. Tag

4. Classify

5. Build

- Gather all relevant documents and data sources.
- Consider using synthetic data to fill in gaps.
- Use AI tools to identify and correct inaccuracies.
- Remove irrelevant or duplicate information.
- Apply relevant tags to each document or data point.
- Ensure consistent tagging for better organization.
- Categorize data into predefined groups (e.g., Winning Proposals, Capabilities Statements).
- Use AI to automate the classification process for efficiency.
- Organize the cleansed, tagged, and classified data into a structured library.
- Use simple folder structures for easy navigation.





Use AI to Create Synthetic Data For Your Proposal Library

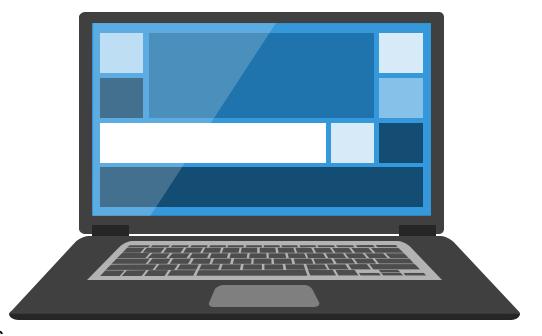
Synthetic Data Definition: Synthetic data is artificially generated data that mimics real-world data.

Use-Case:

- Augments your existing data.
- Fills gaps where real data may be sparse or unavailable.
 Benefit: Enhances your dataset with new and creative content.

Using Generative AI to Create Synthetic Data:

- Use Generative AI to create new synthetic data based on patterns and structures found in your existing data.
- Review and curate the generated synthetic data to ensure it meets quality and relevance standards
- Adjust and refine the synthetic data to better fit your specific needs and contexts.
- Approve the curated and tweaked synthetic data for inclusion in your library, ensuring it aligns with your data requirements and standards.







Steps For Using AI to Create Synthetic Data

1. Identify Data Gaps

 Analyze your existing data to identify areas where synthetic data can fill gaps.

2. Generate Synthetic Data

 Use Generative AI tools to create synthetic data that mimics the patterns and structures of your real data.

3. Curate Synthetic Data

- Review the generated data to ensure it is relevant and highquality.
- Remove any inconsistencies or inaccuracies.

4. Tweak and Refine

- Adjust the synthetic data to better align with your specific requirements.
- Customize data attributes as needed.

5. Approve Data

- Validate the curated and refined synthetic data.
- Ensure it meets your quality standards and data requirements.

6. Integrate into Library

- Incorporate the approved synthetic data into your existing data library.
- Organize it within your library structure for easy access and use.

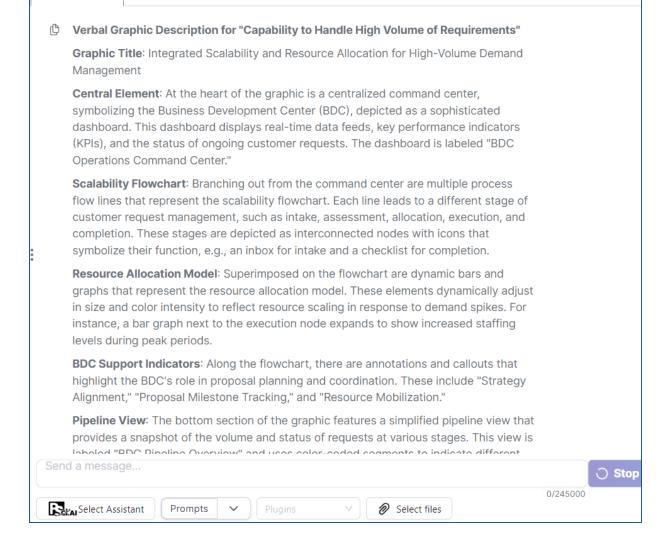




Example of Using AI in Proposal Development

NASA SEWP × +

"You are a proposal graphic artist asked to create a verbal graphic description with text for all of the graphic's elements for the following NASA SEWP VI proposal section: Capability to Handle High Volume of Requirements. The draft RFP specifies the need for offerors to demonstrate their strategy for managing a potentially high volume of customer requests (A.3.7.3(b)(4)(i)). The hot button here is the ability to scale and handle numerous requirements efficiently. The rationale is that NASA anticipates a significant demand for services under this contract and needs a contractor who can keep pace. Please, create a verbal graphic description that incorporate elements that reflect the BDC's role in managing opportunities, such as a centralized tracking system or a dashboard view of the pipeline. The graphic should also indicate the BDC's support in proposal planning and coordination, as well as resource direction for proposal development. Please, incorporate your concepts of Scalability Flowchart and Resource Allocation Model. Base it on the following guideline for Business Development Center (BDC) operations: [Excerpts from AASG Business Development Playbook]"







Q&A Session

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service@ostglobalsolutions.com 301-384-3350 www.ostglobalsolutions.com



