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GPT Panelin Copilot Edit - Comprehensive Implementation

Version: 3.0 (Phase 2 Implementation)

Date: 2026-02-07

Status: Active Development

GitHub Copilot Edition: Enhanced with full BOM valorization

Purpose

This folder contains the complete, organized implementation of the Panelin GPT system with Phase 2 enhancements:

- Full accessories pricing integration (97 items)
- BOM system rules for 6 construction types
- Extended Python calculator with valorization
- Data normalization tools
- Deployment-ready package

Folder Structure

01_KNOWLEDGE_BASE/

Organized by hierarchy level (Level 1-4) matching GPT's knowledge prioritization:

- **Level_1_Master:** Core pricing and formulas
- **Level_1_2_Accessories:** 97 accessories with real prices
- **Level_1_3_BOM_Rules:** 6 construction systems with parametric rules
- **Level_1_5_Pricing_Optimized:** Fast lookup indices
- **Level_1_6_Catalog:** Shopify product catalog
- **Level_2_Validation:** Historical validation data
- **Level_3_Dynamic:** Web-synced prices
- **Level_4_Support:** Process guides and SOPs

02_GPT_CONFIGURATION/

Ready-to-use GPT Builder configuration:

- **Panelin_GPT_config.json:** Main configuration
- **instructions/:** All instruction documents for GPT

03_PYTHON_TOOLS/

Enhanced calculators and utilities:

- `quotation_calculator_v2_original.py`: Original (reference only)
- `quotation_calculator_v3.py`: **NEW** - Extended with accessories pricing
- `data_normalizer.py`: **NEW** - CSV cleanup tool
- `perfileria_index_builder.py`: **NEW** - Perfilería indexer
- `tests/`: Unit and integration tests

04_DATA/

Raw and processed data:

- `raw/normalized_full.csv`: Original 514-row dataset
- `cleaned/`: Normalized data (to be created)
- `indices/`: Fast lookup indices (to be created)

05_ANALYSIS/

Reports and implementation documentation:

- `GPT_OPTIMIZATION_ANALYSIS.md`: Phase 1-4 plan
- Implementation logs and data quality reports

06_DEPLOYMENT/

Production-ready packages:

- `openai_gpt_builder/`: Flattened KB files for upload
- `api_integration/`: Future Cloud Run endpoints

07_DOCUMENTATION/

Additional guides and references (to be created)

Quick Start

For GPT Deployment

1. Go to `06_DEPLOYMENT/openai_gpt_builder/`
2. Follow `deployment_checklist.md`
3. Upload all files from `all_kb_files/`

For Calculator Development

```
from GPT_Panel_in_copilotedit.python_tools import quotation_calculator_v3

result = quotation_calculator_v3.calculate_panel_quote(
    product_id="ISD100EPS",
    width_m=5.0,
    length_m=11.0,
    quantity=1,
    include_accessories=True,
    sistema="techo_isodec_eps" # NEW parameter
)

print(result['grand_total_usd']) # Includes accessories!
```

Current Status

Completed

- Folder structure created
- Knowledge base files organized by level
- GPT configuration files copied
- Original calculator preserved
- Raw data copied

In Progress

- Extend calculator with accessories pricing
- Create data normalization script
- Generate perfilería index
- Write unit tests

Planned

- Deploy to OpenAI GPT Builder
- Create API integration endpoints
- Write comprehensive documentation

Key Changes from Previous Versions

Phase 1 (Completed)

- Created `accessories_catalog.json` with 70+ items
- Created `bom_rules.json` with 6 construction systems
- Unified autoportancia table
- Complete example calculation (ISODEC 100mm)

Phase 2 (Current)

- Extended `quotation_calculator.py` → `v3.py`
- New: `calculate_accessories_pricing()` function
- New: BOM system parameter selection
- New: Catalog file loading with caching
- CSV data normalization
- Perfilería pricing index

Phase 3 (Future)

- Token optimization (-40% avg tokens)
- Compact table responses
- Fast lookup mode

Documentation

See [/02_GPT_CONFIGURATION/instructions/](#) for:

- [PANELIN_KNOWLEDGE_BASE_GUIDE.md](#) - KB hierarchy and usage
- [PANELIN_QUOTATION_PROCESS.md](#) - 5-phase quotation workflow
- [GPT_INSTRUCTIONS_PRICING.md](#) - Fast lookup strategies
- [GPT_PDF_INSTRUCTIONS.md](#) - PDF generation guide

See [/05_ANALYSIS/](#) for:

- [GPT_OPTIMIZATION_ANALYSIS.md](#) - Complete phase plan and analysis

Development Notes

Original Files (Preserved)

- [panelin_agent_v2/tools/quotation_calculator.py](#) - Unchanged
- [GPT_panelin_claudecode/](#) - Source files, unchanged
- [wiki/normalized_full.csv](#) - Original data, unchanged

New Implementations

All new code goes into [03_PYTHON_TOOLS/](#) with clear version markers (v3, etc.)

Testing

Run tests from [03_PYTHON_TOOLS/tests/](#):

```
python -m pytest tests/
```

Support

For questions about:

- **GPT Configuration:** See [02_GPT_CONFIGURATION/instructions/](#)
- **Calculator Implementation:** See [03_PYTHON_TOOLS/](#) comments
- **Data Issues:** See [05_ANALYSIS/data_quality_report.md](#) (when created)

- **Deployment:** See
[06_DEPLOYMENT/openai_gpt_builder/deployment_checklist.md](#)
(when created)



License & Credits

Project: Panelin GPT - BMC Uruguay Assistant

Version: 3.0 (Phase 2)

Implementation: GitHub Copilot Enhanced

Knowledge Base Version: 7.0

Last Updated: 2026-02-07

Next Steps: See implementation plan at: [/Users/matias/.copilot/session-state/5f859bb3-3165-4832-85af-3e6b41c96451/plan.md](#)