SOPX (Quotation & Demo)

* SOPX is an AI-Driven Platform for SOP Management & Generation From Video in Just A Minutes

单位：Fii-CNSBG-CPEG-AI

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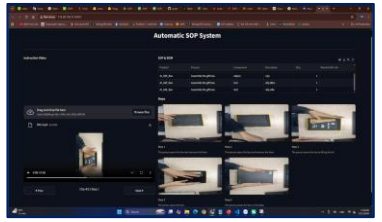
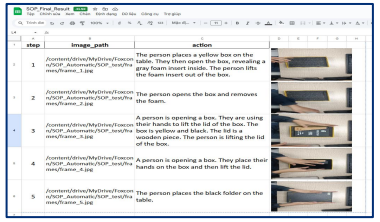
Quotation & Development Plan for SOPX by CPEG-AI

SOPX system will be developed in 2 phase (Phase 1: $8,000 / 3 months; Phase 2: $24,000 / 3 months), with a total investment of $32,000 months, delivering up to 90% reduction in manual SOP creation & 90% reduction in cross-document verification time through intelligent multi-source generation.





OT: CBD-VBV-IE (黃景楊)
AT: CPEG-AI (陈文俊)

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PLAN								INPUT	OUTPUT	USER BENEFIT
Phase 1: Video2SOP (3 months)	1. Require Analysis	2. System & Algorithm Design	3. Dev Frontend	4. Dev Backend	5. Test & Trial Run	6. Deploy	7. Maintain	Video	(1) Editable SOP; (2) Excel Export;	AI extract frame from video & generate content &, reduce manual SOP creation workload by 80%.
Phase 2: Omni2SOP (3 months)	1. Require Analysis	2. Update System & Algorithm	3. Update Frontend	4. Update Backend	5. Test & Trial Run	6. Integrate into System	7. Maintain	Video, BOM, PDF, PPTX, DOCX	(1) Omni-Data Input; (2) Data Knowledge Structure;	(1) 80–90% workload reduction. (2) Multi-source intelligent generation. (3) Reduced 90% time cross-document verify.

Plan	No	Item	Description	Unit Price (USD)	Qty	Cost Total (USD)	Note
PHASE 1: VIDEO2SOP (3 MONTHS)	1.1	Software Development & Platform	AI algorithm development, testing, system design, & training (≥90% baseline accuracy).	$4,000	1	$4,000	1. Hardware is HPC (High Performance PC), OT should provide 2 HPC for AT to develope & deploy. 2. If the hardware is delayed after the case is filed, the OT should pay 4,000 USD/Month to the developer for extended development fees. 3. After the user's case is singed, the AI developer's standard completion time is 3 months. 4. When the accuracy pass line exceeds 90%, the development fee quotation will increase. 5. One year free warranty. 6. Phase 2 involves integration of four additional input sources (BOM, PDF, PPTX, DOCX), each requiring independent data modeling & system enhancement beyond the Phase 1 video baseline. Pricing reflects the additional engineering scope.
	1.2	AI Software Deploy & Algorithm License Fee	Deploy, system integration, & single-site usage license.	$4000	1	$4,000	
	1.3	Maintain (1 year)	Technical support & minor optimization.	$1000/Year	0	$0	
				TOTAL COST PHASE 1		$8,000	
PHASE 2: OMNI2SOP (3 MONTHS)	2.1	Software Development & Platform	Multi-source AI integration (1) BOM, (2) PDF, (3) PPTX, (4) DOCX with system enhancement.	$12,000	1	$12,000	
	2.2	AI Software Deploy & Algorithm License Fee	Installation, system testing, & single-site usage license.	$12,000	1	$12,000	
	2.3	Maintain (1 year)	Technical support & system optimization.	$1000/Year	0	$0	
				TOTAL COST PHASE 2		$24,000	

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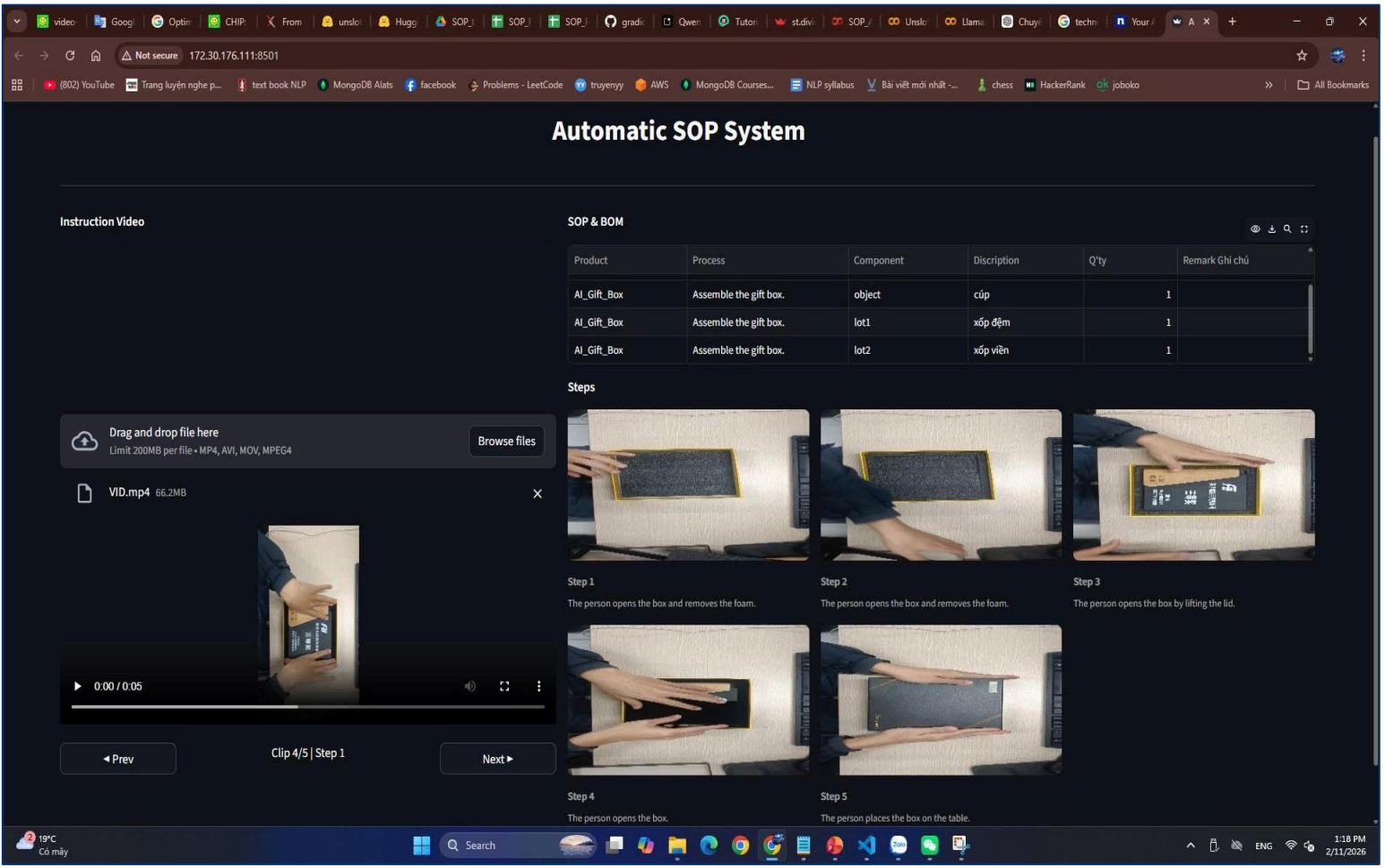
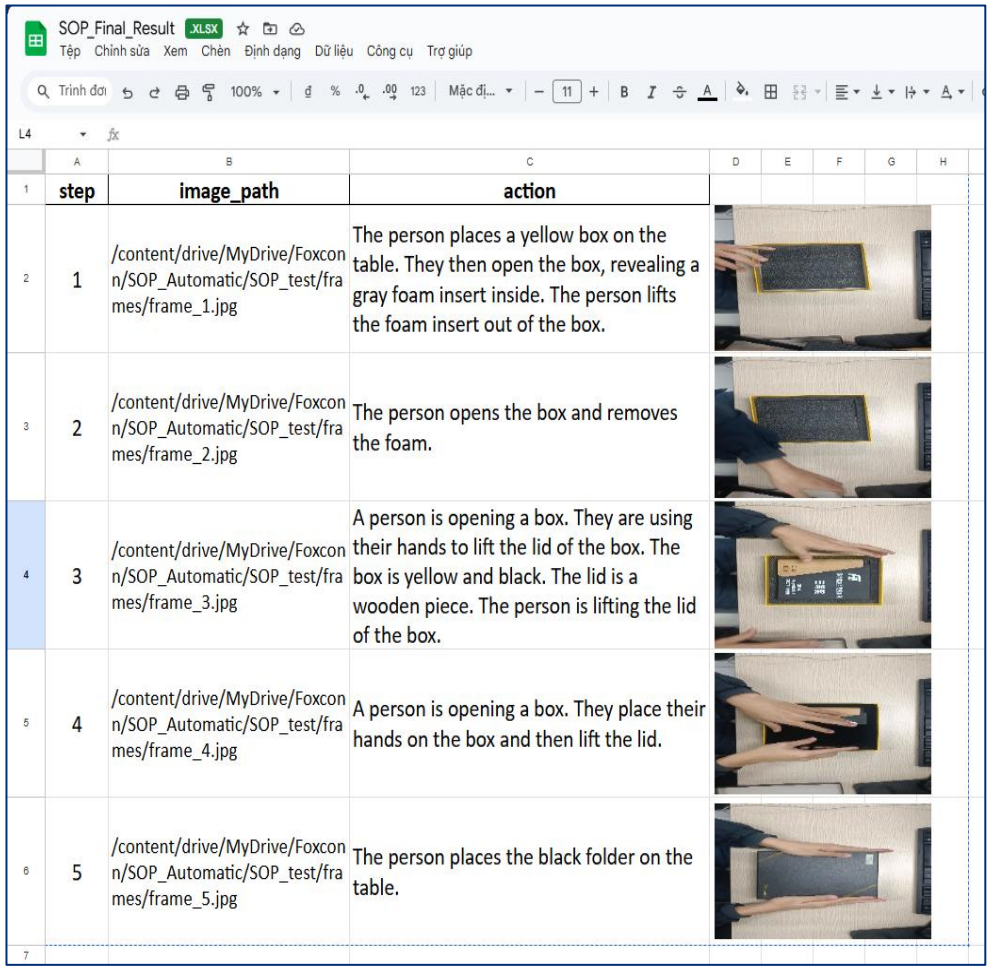
Demo for SOPX by CPEG-AI

Video Demo Script: Packaging Products into boxes

INPUT: A 30 second video <=> 6 videos.
1 video take 5 frame, each frame attached to text.

OUTPUT: An Excel file containing images that have been attached to text.





step	image_path	action	
1	/content/drive/MyDrive/Foxconn/SOP_Automatic/SOP_test/frames/frame_1.jpg	The person places a yellow box on the table. They then open the box, revealing a gray foam insert inside. The person lifts the foam insert out of the box.	
2	/content/drive/MyDrive/Foxconn/SOP_Automatic/SOP_test/frames/frame_2.jpg	The person opens the box and removes the foam.	
3	/content/drive/MyDrive/Foxconn/SOP_Automatic/SOP_test/frames/frame_3.jpg	A person is opening a box. They are using their hands to lift the lid of the box. The box is yellow and black. The lid is a wooden piece. The person is lifting the lid of the box.	
4	/content/drive/MyDrive/Foxconn/SOP_Automatic/SOP_test/frames/frame_4.jpg	A person is opening a box. They place their hands on the box and then lift the lid.	
5	/content/drive/MyDrive/Foxconn/SOP_Automatic/SOP_test/frames/frame_5.jpg	The person places the black folder on the table.	

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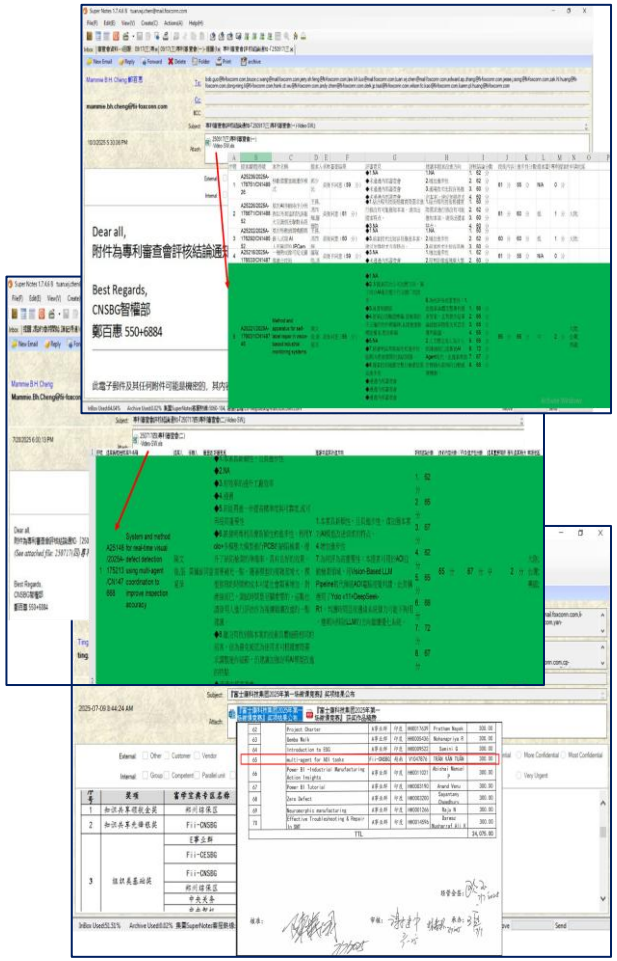
Appendix 1. CPEG-AI Winning Awards

1. AI 算法6个发明专利认证
(三地: 中国大陆, 台湾, 美国)



2. CPEG 一等奖

3. 国际论坛与灯塔工厂成果展示

4. 三等奖 2025数字化應用優秀案例評選

* Please keep scrolling down. A lot of interesting thing is below...

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V 案例介紹1: AI Patrol Virtual Travel (AI巡检)

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BEFORE

1. 人工巡檢與紙本台帳記錄.
2. 容易疲勞, 容易漏檢.
3. 人員需要執行大量重複性工作, 效率低.
4. 客戶與管理人員經常需要到現場巡檢.

圖 1：大多數錯誤必須人工記錄在紙本上

圖 2：工廠中的人工巡檢與巡邏

AFTER

1. AI-Patrol 追蹤, 日誌記錄與統計分析圖表, 方便查看.
2. AI-Patrol 在多個區域進行 360° 自動巡檢, 每日巡檢 40,000 次.
3. 採用 AI 自適應演算法, NTF 錯誤率為 0.5%.
4. 可隨時隨地存取與監控, 支援線上, 離線與現場.

圖 3：易於查看的違規分析資料

圖 4：於單一介面集中監控所有不同地點

結論:

(1) 自動巡檢覆蓋率 100%, 人工複檢率由 100% 降至小於 1%.

(2) 高負載能力：每日 40,000 次巡檢, 全年無休（24/7）持續追蹤與告警.

(3) 永續性：二氧化碳排放量減少 90%（由每年 10 噸降至每年 1 噸）.

(4) 差旅成本降低 83%——由 120 萬降至 20 萬.

2026 年優化方向

目前限制:

(1) 人工標註佔用了 80% 的開發時間.

(2) 環境改變時需要重複標註.

解決方案: AI 智慧代理自動標註，使標註流程加速 80%.

系統部署前後 CO2 減排對比

部署 AI-Patrol 前后差旅费用对比

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VI 案例介紹2: AI Smart Gate（AI智能门岗）

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BEFORE

1. 缺乏用於追蹤與分析違規行為的數位資料.
2. 人工檢查耗費人力、容易出錯，且一致性不足.
3. 人員需要執行大量重複性工作，效率低.
4. 員工進出工廠未完全符合安全規範.

圖 1：大多數錯誤必須人工記錄於紙本

圖 2：人工檢查示意

AFTER

1. AI-SmartGate 追蹤, 日誌記錄與統計分析圖表, 方便查看.
2. AI-SmartGate 透過電腦視覺偵測異常行為並進行告警.
3. 偵測異常行為、未穿防護服、未戴安全帽
4. 可隨時隨地存取與監控資料，支援線上與現場.

圖 3：易於查看的 AI-SmartGate 違規分析資料

圖 4：AI-Smart Gate 可偵測異常行為與未穿防靜電服

結論:

(1) 自動檢查覆蓋率 100%，保全人力由 12 人降至 1 人.

(2) 儀表板：資料分析可完整記錄，方便查詢.

(3) 提升安全性：偵測異常行為、未穿防護服、未戴安全帽.

(4) 提升保全能力：偵測金屬物品與違禁工具，如刀具、剪刀等.

2026 年優化方向

目前限制:

(1) 人工標註佔用了 80% 的開發時間.

(2) 環境變化時需要重複標註.

解決方案: AI 智慧代理自動標註，使標註流程加速 80%

人力成本降低

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VII 案例介紹3: AI Quality Control（AI质检）

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BEFORE

1. 100% 人工檢查, 不穩定且容易出錯.
2. 無數位化追蹤紀錄, 結果以紙本 / Excel 保存, 難以驗證.
3. 人工檢查制服與防護裝備時, 經常漏檢.
4. 人員需要執行大量重複性工作, 效率低.

圖 1：員工在工作時可能會睡著

圖 2：大多數錯誤必須人工記錄於紙本

AFTER

1. 透過 AI 進行 100% 自動化檢測.
2. 全流程數位化, 可追溯, 並即時呈現於儀表板.
3. 自動檢查防護裝備與異常行為（例如打瞌睡等）.
4. 可隨時隨地存取與監控資料, 支援線上, 現場.

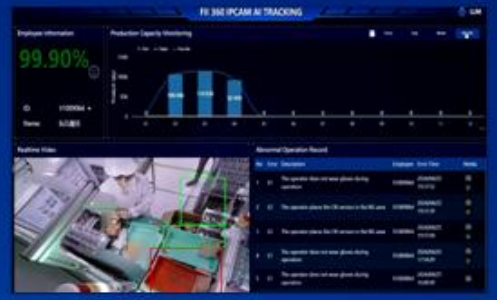

圖 3：易於查看的違規分析資料

圖 4：AI 可偵測異常行為并發出警報

結論:

(1) 員工行為監測準確率提升至 95%.
(2) 員工穿著合規監測準確率提升至 98%.
(3) 外包批次稽核（OBA）由 0.5% 降至 0%.
(4) 一次性開發成本節省 100,000 美元.
(5) 儀表板可完整記錄資料分析結果, 方便查詢.
(6) 系統部署後, 每個據點每年可節省 7,200 美元.

2026 年優化方向:

目前限制:
(1) 人工標註佔用 80% 的開發時間.
(2) 當環境變化時需要重複標註.
解決方案: 導入 AI 智慧代理自動標註，使標註流程加速 80%.

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