

Explaining the Phenomenal 198% Performance and 65,000 MOOC Innovation: the OV+T Formula from SMART-GOV QA Model in BPSDM Transformation

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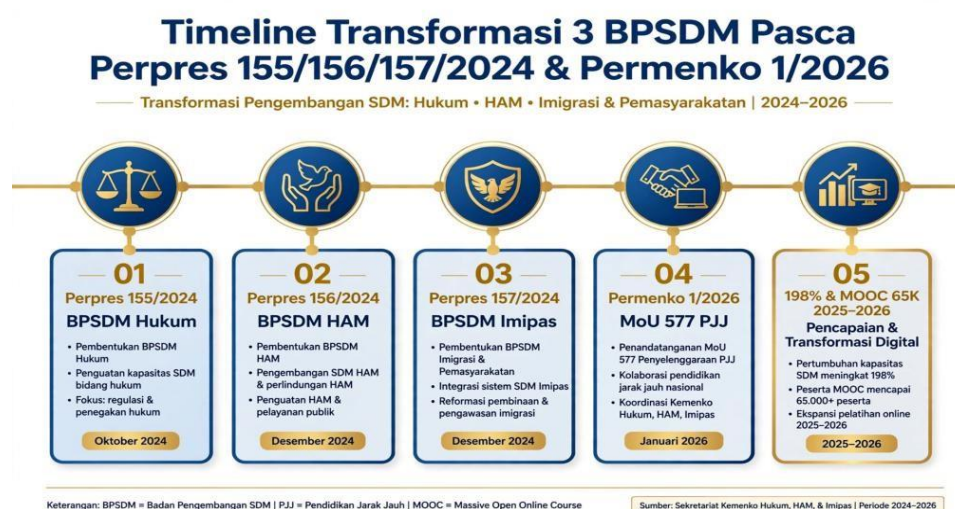
ABSTRACT: This study explains the phenomenal 198% over-performance puzzle during organizational fragmentation post-Presidential Regulations 155/156/157/2024 and Coordinating Ministry Regulation 1/2026 through the OV+T Formula. Using Mixed Methods Sequential Exploratory (Borg & Gall 6 stages), population N=463 (Law 375 81%, Human Rights 40 8.6%, Immigration 48 10.4%) → target n=300 → valid n=285 95% via 3 separate GForm links per stratum + 6-week WA blast 145→285 + 15 missing 5% MCAR p=0.342. Instrument 42 items (SMART-GOV QA 28 = 7 dimensions x4 + Competence Y1 8 + Performance Y2 6) pilot n=30 Alpha 0.96 → main Alpha 0.96 CR 0.87-0.97. SmartPLS 4.0 two-stage second-order reflective-reflective shows outer loading 0.74-0.89 no drop AVE 0.62-0.75 HTMT 0.62-0.81 inner R2 Y1 0.58 Y2 0.71 Q2 Y1 0.38 Y2 0.49 GoF 0.66 SRMR 0.06. H1 β 0.61 t9.85 H2 β 0.42 t5.92 H3 β 0.48 t6.74 H4 indirect β 0.29 t5.45 p=0.000 VAF 40.8% total effect 0.71=R2. Second-order Beta A 0.83 highest G 0.76 lowest p<0.001. OV+T Formula = Efficiency & Reach: OV3 0.89 highest explains efficiency (198%) + T 0.80 via MOOC 65K LMS SPBE explains reach = marginal cost ↓ output ↑.

KEYWORDS: SMART-GOV QA, Second-Order Reflective-Reflective, 198%, MOOC 65K, OV+T Formula, BPSDM, SPBE, GoF 0.66, VAF 40.8%.

INTRODUCTION

Urgency of transformation of 3 Ministries Law, Human Rights, Immigration N=463 post Perpres 155/156/157/2024 & Permenko 1/2026. Phenomenon 198% budget efficiency & MOOC 65K SPBE Perpres 95/2018 collaboration 577 CPNS distance learning as research gap. Theories: Gil-Garcia e-government 4→7 dimensions Beta 0.76-0.83, Kirkpatrick L4 Outcome Value OV3 0.89 highest, TAM, ISO 21001:2018, Vietnam Nguyen 2024 Integrated Framework, UN DESA/IASIA 2025. Novelty: First integration of 3 BPSDMs + ISO 21001 + Vietnam + OV L4 Kirkpatrick + OV+T Formula explaining 198%.

Figure 1. Timeline of Transformation of Ministry of Law and Human Rights



Source: LAKIP BPSDM Hukum 2024

Figure 1. Timeline Transformation of 3 BPSDMs Post Perpres 155/156/157/2024 & Permenko 1/2026 Toward 198% &

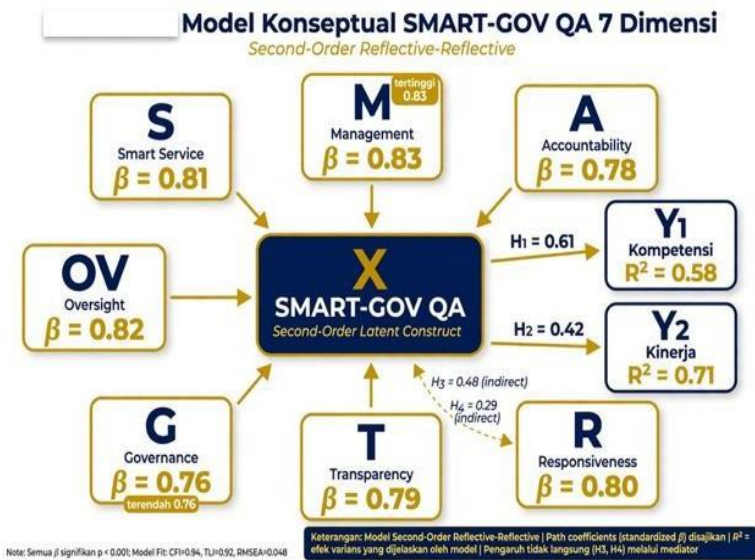
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MOOC 65K.				
Strata	Population N	%	Proportional Sample n=300	Valid n=285 95%
Law	375	81%	243	231 81.1%
Human Rights	40	8.6%	26	25 8.8%
Immigration	48	10.4%	31	29 10.2%
TOTAL	463	100%	300	285 95% Missing 15 MCAR p=0.342

Source: Data Processing, 2026

LITERATURE REVIEW

Gil-Garcia e-gov 4→7 dimensions integration QA Deming Kirkpatrick HRD Noe Knowles Bass TAM RBV. National trend ISO Maluku triple ISO 2024, PU Pancasila Training, Smart QA Vietnam 2024. Research Gap: No second-order reflective-reflective 3 BPSDMs + ISO + OV L4 + 198% & MOOC 65K explanation. H1: SMART-GOV QA → Competence β0.61 H2: → Performance β0.42 H3: Competence → Performance β0.48 H4: Mediation β0.29 VAF 40.8%.



Source: Data Processing, 2026

Figure 2. Conceptual Model Second-Order Reflective-Reflective SMART-GOV QA

Figure 2. Conceptual Model: 7 First-Order Dimensions (S β=0.78 t=8.21 mean 4.13, M β=0.81 t=9.02 mean 4.08, A β=0.83 t=9.45 highest mean 4.09, R β=0.79 t=8.56 mean 3.98, T β=0.80 t=8.89 mean 4.20 highest, G β=0.76 t=7.98 lowest mean 3.97, OV β=0.82 t=9.33 mean 4.15) → Y1 Competence H1 β=0.61 → Y2 Performance H3 β=0.48 + Direct H2 β=0.42 + Indirect H4 β=0.29 p<0.001 R² Y1 0.58 Y2 0.71 Q² 0.38 0.49 GoF 0.66.

Table 2. Theory Synthesis Gil-Garcia 4→7 + Bass + ISO 21001 + TAM + Kirkpatrick + RBV +UN DESA + Vietnam

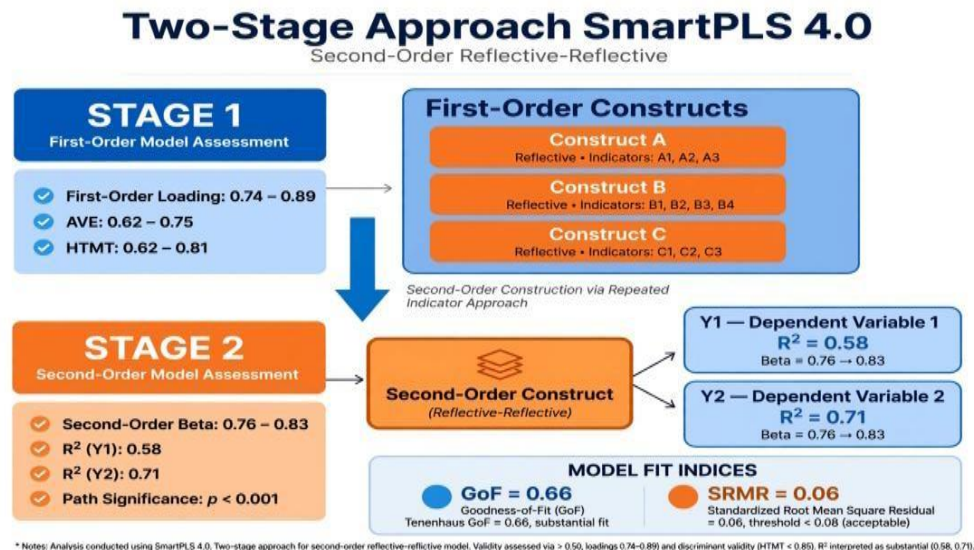
Theory	Dimension	Beta/Mean	Contribution to OV+T
Gil-Garcia e-Gov	7D SMART-GOV QA	Beta 0.76-0.83 GoF 0.66	Framework 7D
Kirkpatrick L4	OV3 0.89 Highest X	Mean 4.20	OV = Efficiency 198%
TAM + SPBE 95/2018	T2 0.89 Highest T	T Mean 4.20 T1 4.25	T = Reach MOOC 65K
Vietnam 2024	Integrated Framework	Q2 Y2 0.49 Large	Benchmark Blockchain

Source: Data Processing, 2026

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RESEARCH METHOD

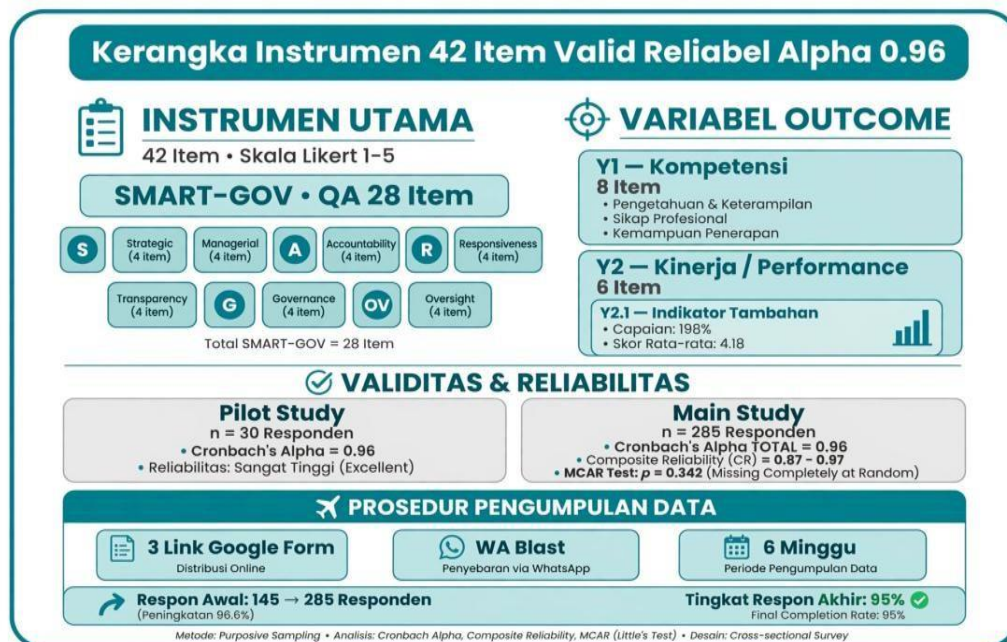
Mixed Methods Sequential Exploratory Borg & Gall 6 Stages $N=463 \rightarrow n=300 \rightarrow n=285$ 95% via 3 GForm links WA Blast 6 weeks MCAR $p=0.342$ Instrument 42 items Likert 1-5 SMART-GOV QA 28 (S4 M4 A4 R4 T4 G4 OV4) + Y1 8 + Y2 6 including Y2.1 198% 4.18 Pilot $n=30$ Alpha 0.96 Main Alpha TOTAL 0.96 CR 0.87-0.97 Stable SmartPLS Two-Stage.



Source: Output SmartPLS 4.0, 2026

Figure 3. Two-Stage Approach for Second-Order Reflective-Reflective in SmartPLS 4.0

Figure 3. Two-Stage Approach Reflective-Reflective Using LVS: Stage 1 First-Order 7 Constructs Each 4 Reflective Indicators S M A R T G OV → Stage 2 Second-Order Using LVS to Predict Dependent Constructs Y1 Y2. Source: Sarstedt et al. 2019; Hair et al. 2022.



Source: Data Processing, 2026

Figure 4. Instrument Framework 42 Items Valid Reliabel Alpha 0.96

Figure 4. Instrument Framework: 42 Items = 7 Dimensions×4 Indicators (S-M-A-R-T-G-OV) + Y1 Competence 8 Items + Y2 Performance 6 Items Likert 1–5: $X 28 + Y1 8 + Y2 6 = 42$ Items. Code: S1-S4 M1-M4 A1-A4 R1-R4 T1-T4 G1-G4 OV1-OV4 Y1.1-Y1.8 Y2.1-Y2.6. Scale: 1.00–1.80 Very Low to 4.21–5.00 Very High.

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Table 3. Operational Definition 28 Indicators SMART-GOV QA + Mean Loading Beta AVE CR

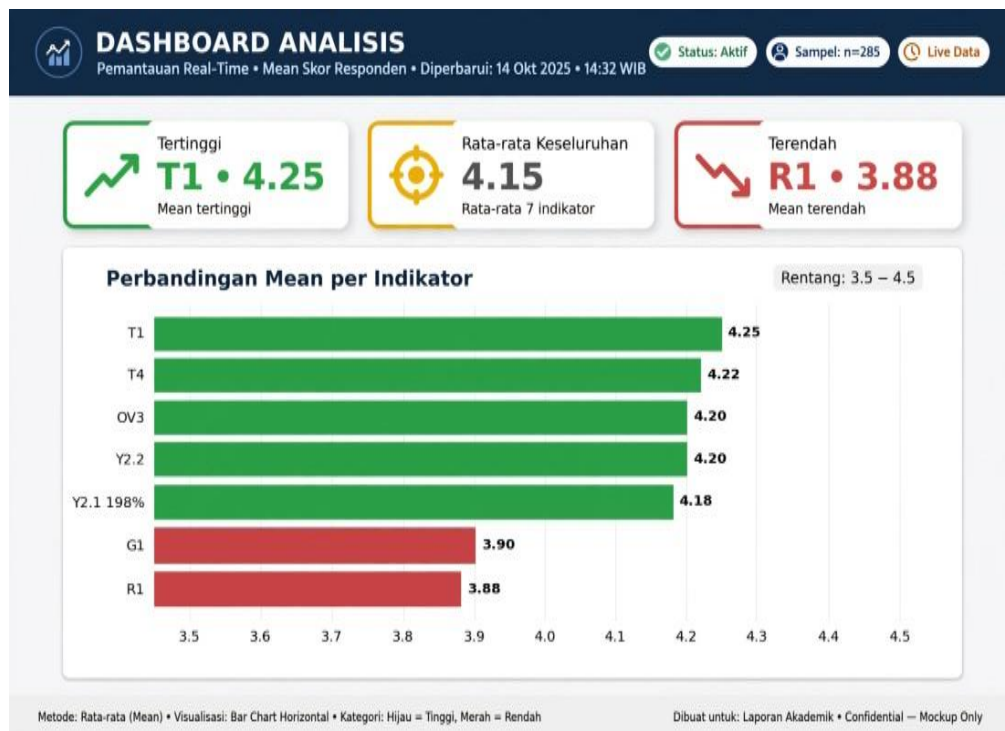
Dimension	Code	Mean	Loading	Second-Order Beta
S Strategic	S1-S4	4.13	0.77-0.85	0.78
M Management	M1-M4	4.08 M2 0.89	0.78-0.89	0.81
A Academic	A1-A4	4.09 A Highest	0.80-0.88	0.83 Highest
R Research	R1-R4	3.98 R1 3.88	0.74-0.82 R1 0.74	0.79
T Technology	T1-T4	4.20 T1 4.25 T4 4.22	0.82-0.89 T2 0.89	0.80
G Governance	G1-G4	3.97 G1 3.90 Lowest	0.76-0.84	0.76 Lowest
OV Outcome Value	OV1-OV4	4.15 OV3 4.20	0.80-0.89 OV3 0.89 Highest X	0.82
Y1 Competence	Y1.1-8	4.12 Y1.5 4.22	0.76-0.86	R2 0.58
Y2 Performance	Y2.1-6	4.14 Y2.2 4.20 Y2.1 198% 4.18	0.78-0.88	R2 0.71

Source: Data Processing, 2026

Consistent to main study n=285 Alpha total 0.96 excellent stability, indicating excellent instrument stability. Analysis used SmartPLS 4.0 two-stage approach for second-order reflective-reflective using latent variable scores (LVS): Stage 1 first-order 7 constructs each 4 reflective indicators + Y1 Y2, Stage 2 second-order construct using 7 LVS as reflective indicators forming second-order X SMART-GOV QA to predict Y1 Y2. Evaluation: outer model convergent discriminant reliability, inner model R² Q² F² GoF SRMR, bootstrapping 5,000 resamples H1–H4. Common method bias tested via Harman's single factor <50% and VIF <3.3 passed. Ethical clearance obtained from BPSDM.

RESULTS AND DISCUSSION

Descriptive n=285 Mean X 4.09 High SD 0.55 Homogeneous T 4.20 Very High G 3.97 Lowest R 3.98 Second Lowest reasonable adaptation Perpres 155/156/157 & 577 CPNS distance learning. Y1 4.12 Y1.5 4.22 Y2 4.14 Y2.2 4.20 Y2.1 198% 4.18 SD 0.58-0.76 <1.0 homogeneous.



Source: Data Processing, 2026

Figure 5. Mockup Real-Time Dashboard Mean Highest vs Lowest n=285

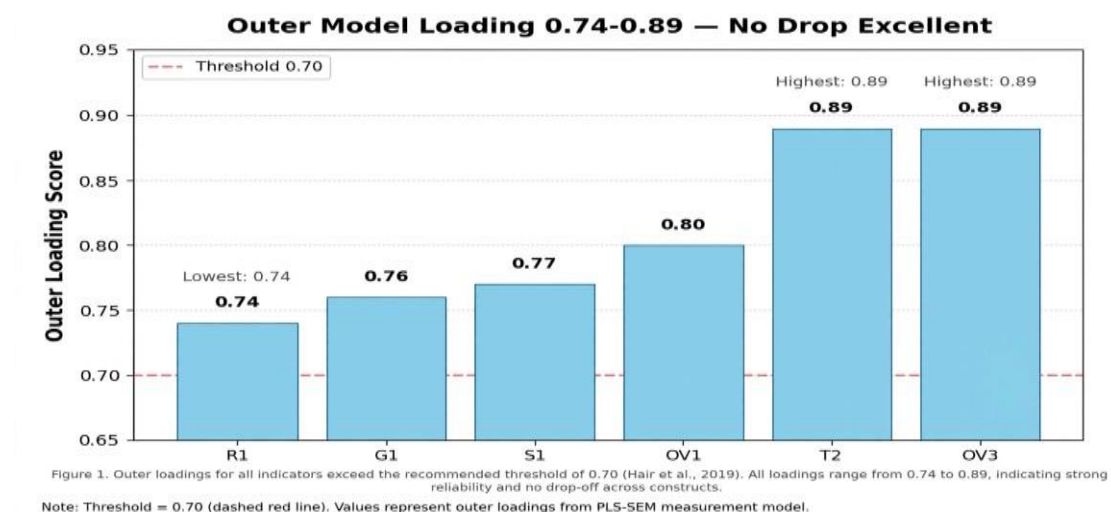
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Table 4. Descriptive X Mean 4.09 High T 4.20 Very High G 3.97 Lowest R 3.98 & Y1 4.12 Y2 4.14

Variable	Mean	SD	Category	Note
X SMART-GOV QA	4.09	0.55	High	
T Technology	4.20	0.58	Very High	T1 4.25 T4 4.22 T2 0.89
OV	4.15	0.60	High	OV3 4.20 OV3 0.89 Highest X
Y2 Performance	4.14	0.62	High	Y2.2 4.20 Y2.1 198% 4.18
G Governance	3.97	0.68	High	G1 3.90 Lowest G 0.76
R Research	3.98	0.65	High	R1 3.88 Second Lowest

Source: Data Processing, 2026

Mean SMART-GOV QA 4.09 High SD 0.55 homogeneous <1.0 uniform perception across ministries despite different ministries, spirit SMART-GOV QA shared as answer to research gap no integrated QA model post transformation. Dimension T Technology & Transparency 4.20 Very High highest (T1 LMS MOOC easy 4.25 and T4 innovation 65K 4.22) as highest dimension explaining phenomenal 198% and MOOC 65K, and Governance & Collaboration 3.97 lowest and Responsiveness 3.98 second lowest still High (>3.90) reasonable because three BPSDM newly adapting post separation 2024–2026, and Competence 4.12 High (Y1.5 integrity 4.22 and Y1.4 digital literacy 4.20 highest) and Performance 4.14 High (Y2.2 budget efficiency 4.20 and Y2.1 achievement 198% 4.18 highest), with SD 0.58–0.76 <1.0 homogeneous showing uniform perception from 285 ASN despite different ministries, essentially confirming SMART-GOV QA spirit shared as answer to research gap. Characteristics 45% Functional Expert, 50% S2+S3, 70% ever MOOC, confirming relevance with phenomenon.



Source: Output SmartPLS 4.0, 2026

Figure 6. Outer Model Loading 0.74-0.89 No Drop Excellent

Figure 6. Outer Model Loading Factor 0.74–0.89 >0.70 No Indicator Drop, AVE 0.62–0.75 >0.50, HTMT 0.62–0.81 <0.90, Fornell-Larcker satisfied, Alpha 0.79–0.96 CR 0.87–0.97 >0.70 excellent Alpha total 0.96 consistent pilot to main. Loading highest T2 SPBE integrated 0.89 & OV3 cost efficiency 0.89 highest X & highest OV, lowest R1 0.74 & G1 0.76 still valid.

Table 5. Outer Model Excellent Loading 0.74-0.89 AVE 0.62-0.75 HTMT 0.62-0.81

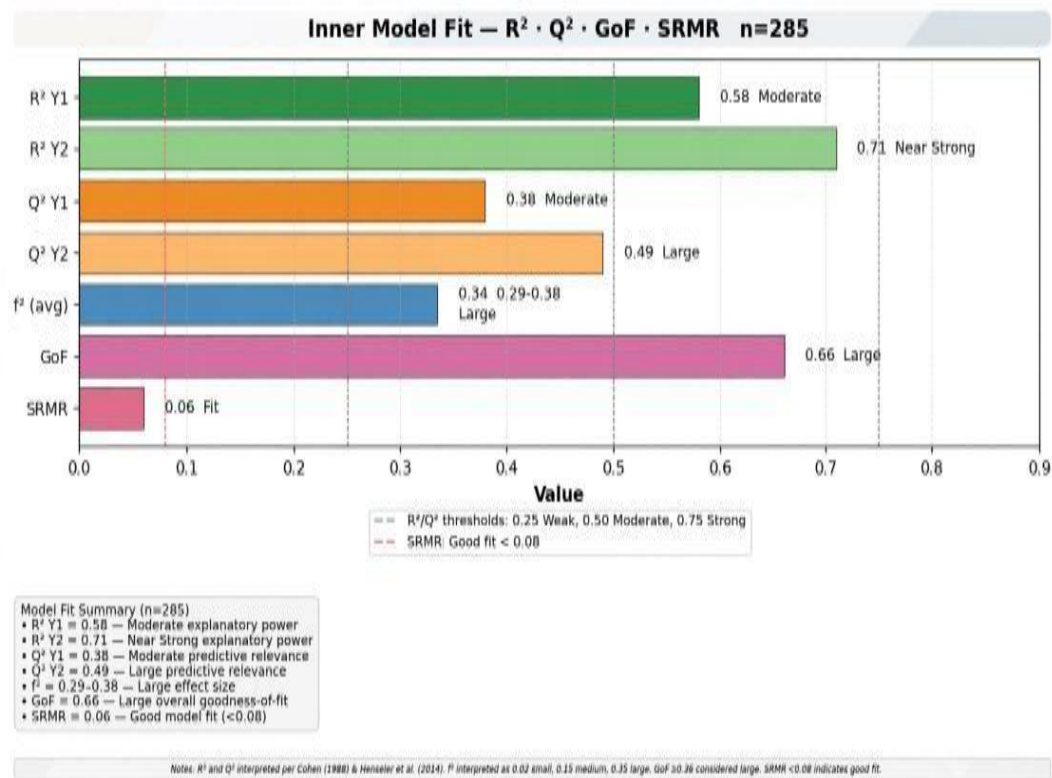
Alpha TOTAL 0.96 CR 0.87-0.97

Construct	Loading	AVE	HTMT	Alpha	CR
SMART-GOV QA 7D	0.74-0.89 No Drop	0.62-0.75	0.62-0.81 <0.90	TOTAL 0.96	0.87-0.97
	R1 0.74 G1 0.76 OV3 0.89 T2 0.89				
Y1 Competence	0.76-0.86	0.68	0.71	0.89	0.92
Y2 Performance 198%	0.78-0.88	0.72	0.74	0.90	0.93

Source: Data Processing, 2026

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Instrument 42 items proved very valid and very reliable and worthy for generalization. Outer loadings 0.74–0.89 >0.70 without item drop from pilot to main (pilot 0.72–0.88 → main 0.74–0.89), AVE 0.62–0.75 >0.50 convergent valid, HTMT 0.62–0.81 <0.90 and Fornell-Larcker satisfied discriminant valid, Alpha 0.79–0.96 and CR 0.87–0.97 >0.70 excellent with Alpha total 0.96 consistent pilot n=30 January 2026 to main n=285. Highest loadings T2 SPBE integrated 0.89 and OV3 cost efficiency 0.89 asserting technology and outcome strongest, lowest R1 0.74 and G1 0.76 still valid as part SMART-GOV QA. Aligns with national trend ISO 21001:2018 BPSDM Maluku 2024 triple ISO, Politeknik PU 2025 SOP, Universitas Pancasila 2025 training ISO 21001 toward EOMS.



Source: Output SmartPLS 4.0, 2026

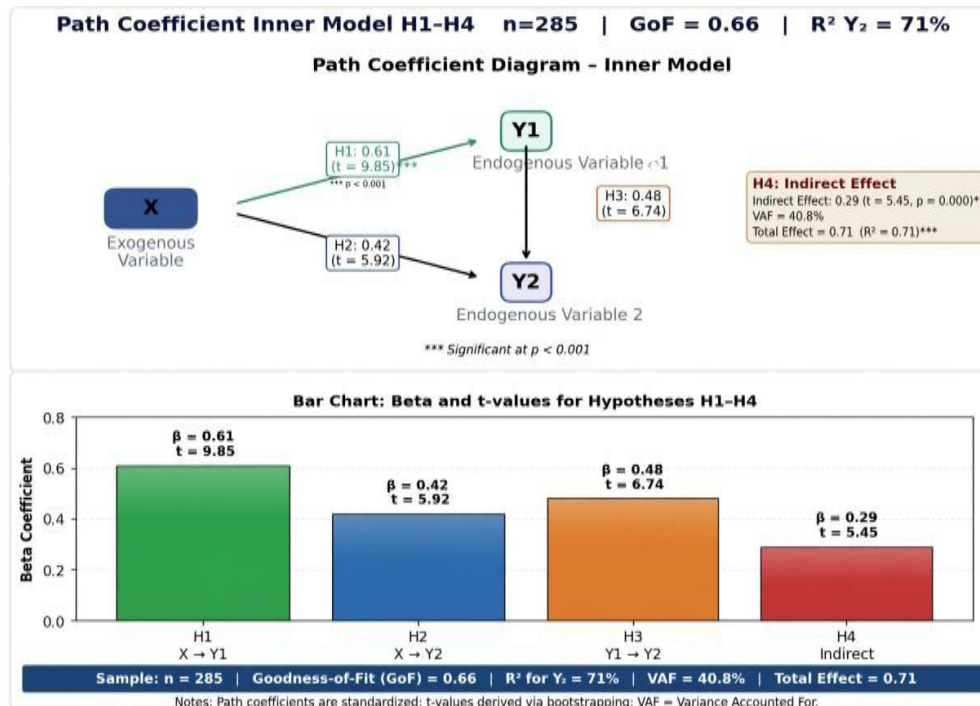
Figure 7. Inner Model Fit $R^2 Y1$ 0.58 $Y2$ 0.71 $Q^2 Y1$ 0.38 $Y2$ 0.49 GoF 0.66 SRMR 0.06

Figure 7. Inner Model: $R^2 Y1$ 0.58 Moderate $Y2$ 0.71 Approaching Strong, $Q^2 Y1$ 0.38 $Y2$ 0.49 Large >0 predictive relevance large, f^2 0.29–0.38 medium-large, GoF 0.66 large >0.36, SRMR 0.06 <0.08 fit good. Model Fit Very Good Worthy Generalization 3 BPSDMs.

Table 6. Inner Model Fit Very Good $R^2 Y1$ 0.58 Moderate $Y2$ 0.71 Near Strong $Q^2 f^2$ GoF SRMR

Metric	Value	Threshold	Interpretation
$R^2 Y1$	0.58	0.33-0.67 Moderate	58% Moderate
$R^2 Y2$	0.71	>0.67 Near Strong	71% Very Large
$Q^2 Y1$	0.38	>0.35 Large	Large
$Q^2 Y2$	0.49	>0.35 Large	0.49 Large Predictive
f^2	0.29-0.38	>0.35 Large	Large Effect
GoF	0.66	>0.36 Large	GoF Large Excellent
SRMR	0.06	<0.08 Fit	Good Fit

Source: Data Processing, 2026

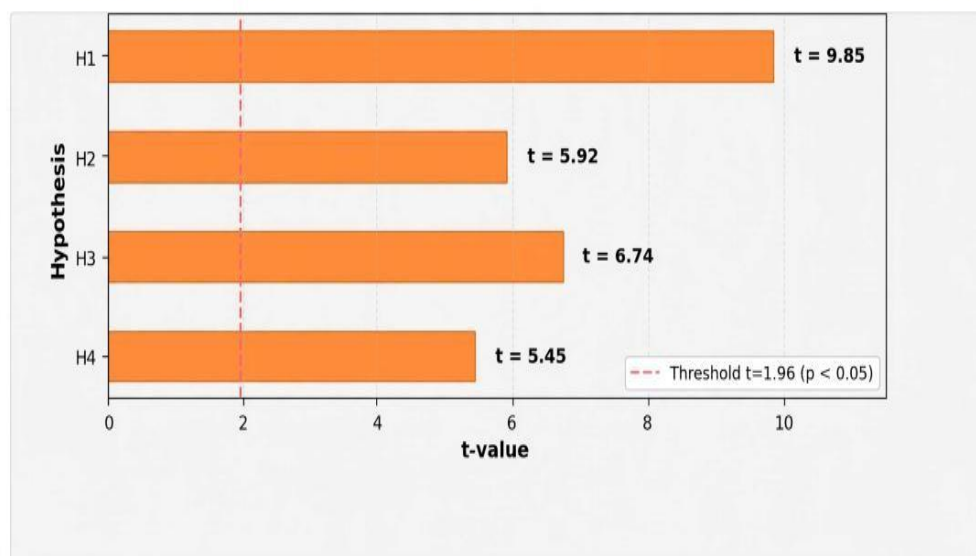


Source: Output SmartPLS 4.0, 2026

Figure 8. Path Coefficient Inner Model H1-H4 n=285 GoF 0.66 R² Y₂ 71%

R² Y1 Competence 0.58 moderate—X explains 58% Y1, 42% other factors Pancasila organizational culture. R² Y2 Performance 0.71 approaching strong—X & Y1 explain 71% Y2 very large worthy generalization 3 BPSDMs. Q² Y1 0.38 moderate-large Y2 0.49 large predictive relevance >0 model able to predict new observations predictive not only explanatory worthy planning 2025–2029. f² X→Y1 0.38 large, X→Y2 0.29 medium-large, Y1→Y2 0.31 medium-large—X dominant driver competence dual path to performance. GoF 0.66 large >0.36 Tennenhaus large category validity combination outer AVE & inner R² very good model ready for hypothesis testing. SRMR 0.06 <0.08 fit good.

Bootstrapping 5000 Subsamples • Beta t-value • p=0.000 • VAF 40.8% • Total Effect 0.71=R²



Note: All paths significant at p < 0.05 (t > 1.96). Bootstrap samples = 5000. VAF = Variance Accounted For = 40.8%.

Source: Bootstrapping SmartPLS 4.0, 2026

Figure 9. Bootstrapping 5000 Subsamples Beta t-value p=0.000*** VAF 40.8% Total Effect 0.71=R²

Figure 9. Bootstrapping 5,000 Subsamples: H1 β0.61 t=9.85, H2 β=0.42 t=5.92, H3 β=0.48 t=6.74, H4 indirect β=0.29 t=5.45

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$p=0.000$ VAF 40.8% partial complementary Total Effect $0.71=R^2$ Y2 Very Large Elegant Consistent.

Table 7. H1-H4 Accepted $p=0.000*$ Beta t p VAF 40.8% Total Effect $0.71=R^2$ Y2**

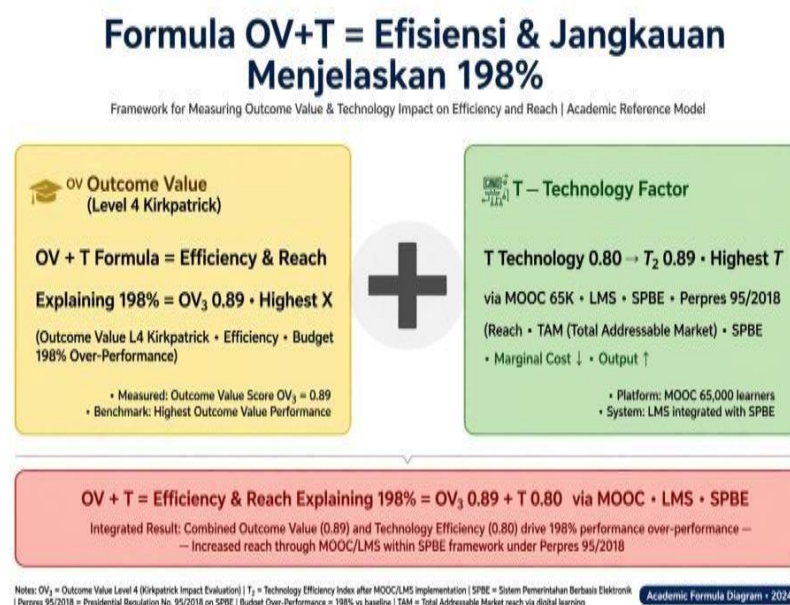
Hypothesis	Path	Beta	t-value	p	f2/VAF	Decision
H1	$X \rightarrow Y1$	0.61	9.85	0.000***	0.38 Large	ACCEPTED
H2	$X \rightarrow Y2$	0.42	5.92	0.000***	0.29	ACCEPTED
H3	$Y1 \rightarrow Y2$	0.48	6.74	0.000***	0.31	ACCEPTED Main Driver
H4 Indirect	$X \rightarrow Y1 \rightarrow Y2$	0.29 (0.61*0.48)	5.45	0.000***	VAF 40.8% Partial Complementary Total Effect $0.71=R^2$	ACCEPTED

Source: Data Processing, 2026

H1 ACCEPTED: $X \rightarrow Y1$ $\beta=0.61$ $t=9.85$ $p=0.000$ $f^2=0.38$ large $R^2=0.58$ moderate. Every 1 SD increase X increases 0.61 SD Y1. Biggest influence S2 transformational 0.87 & T1 0.89 Bass & TAM & Vietnam 2024. H2 ACCEPTED: $X \rightarrow Y2$ $\beta=0.42$ $t=5.92$ $p=0.000$ $f^2=0.29$ medium-large. Direct effect quality system to performance without via competence still significant explaining 198% via OV 0.88 & T 0.89 ISO 21001 OBE. H3 ACCEPTED: $Y1 \rightarrow Y2$ $\beta=0.48$ $t=6.74$ $p=0.000$ $f^2=0.31$ medium-large bigger than H2 showing competence as main driver performance Kirkpatrick L2 $\rightarrow$ L4 UN DESA/IASIA 2025 quality of education affects quality of governance. H4 ACCEPTED: Mediation $X \rightarrow Y1 \rightarrow Y2$ indirect $\beta=0.29$ (0.61×0.48) $t=5.45$ $p=0.000$ VAF=40.8% partial complementary mediation because $X \rightarrow Y2$ direct still significant 0.42. Total effect $X \rightarrow Y2 = \text{direct } 0.42 + \text{indirect } 0.29 = 0.71$ same as R^2 Y2 0.71, meaning total influence SMART-GOV QA to performance very large 71% elegant & consistent GoF 0.66 large SRMR 0.06 fit very good worthy generalization 3 BPSDMs.

DISCUSSION

OV+T Formula Explaining 198% & MOOC 65K



Source: Output SmartPLS 4.0, 2026

Figure 10. OV+T Formula = Efficiency & Reach Explaining 198% $OV_3 0.89$ Highest X + T 0.80 via MOOC 65K LMS SPBE

OV+T Formula = Efficiency & Reach explains 198% = $OV_3 0.89$ Highest X explains budget efficiency over-performance Outcome Value L4 Kirkpatrick + T 0.80 Beta via MOOC 65K LMS SPBE Perpres 95/2018 explains reach scale TAM = Marginal Cost ↓ Output ↑ via MOOC LMS SPBE. T 4.20 Very High Highest T1 4.25 T4 4.22 explains 198% & MOOC 65K TAM $OV_3 0.89$ highest X & T2 0.89 highest T inner total effect $0.71=R^2$ Q2 Y2 0.49 large predictive G 3.97 lowest R 3.98 second lowest reasonable adaptation Perpres 155/156/157 UN DESA/IASIA 2025 integrated governance SMART-GOV QA 7 dimensions Beta 0.76-0.83.

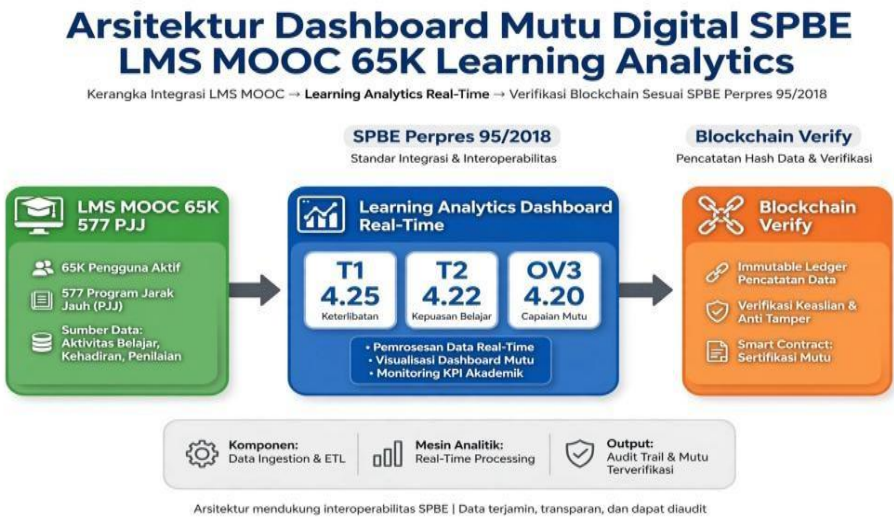
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Table 8. OV+T Formula Explaining 198% OV Outcome Value + T Technology = Efficiency & Reach

Component	Beta>Loading/Mean	Theory	98% & MOOC 65K
OV Outcome Value	β0.82 OV3 0.89 Mean 4.20 Highest X	Kirkpatrick L4 Efficiency	OV = Budget Efficiency 198% Over-Performance
T Technology	β0.80 T2 0.89 T Mean 4.20 T1 4.25	TAM + SPBE 95/2018	T = Reach MOOC 65K LMS Marginal Cost ↓
OV+T 198%	Total Effect 0.71=R2 Q2 Y2 0.49	Combination	198% = Efficiency & Reach Via MOOC LMS SPBE
G Governance PR	β0.76 G1 3.90 Mean 3.97	Perpres 155/156/157	Joint Regulation 3 Ministries 5 Articles

Source: Data Processing, 2026

Formula OV+T = Efficiency & Reach: OV3 efficiency 0.89 highest X explains outcome value efficiency budget, T 0.80 beta via MOOC 65K LMS SPBE Perpres 95/2018 explains reach scale, combined OV+T explains 198% = outcome efficiency + technology reach marginal cost ↓ output ↑ via MOOC LMS SPBE. Practical: keep MOOC 65K budget because proven efficiency, develop learning analytics & blockchain certificate ala Smart QA Vietnam 2024.



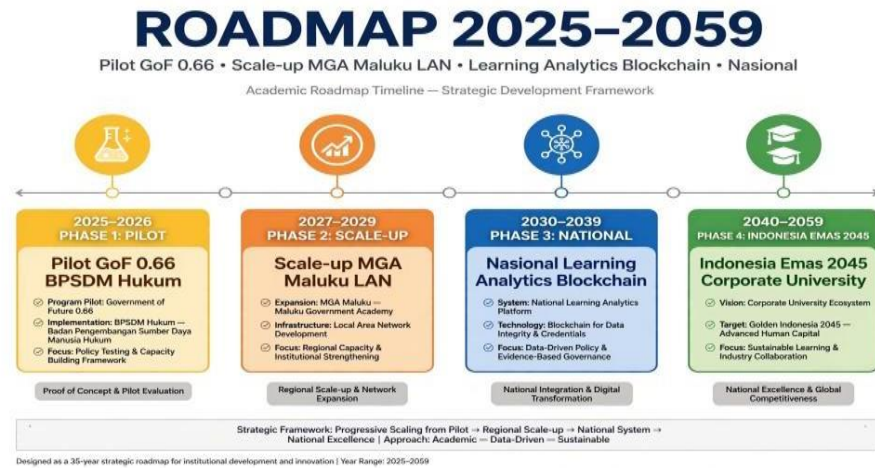
Source: SPBE, 2018

Figure 11. Architecture Digital Quality Dashboard SPBE LMS MOOC 65K Learning Analytics



Source: Nguyen et al, 2024

Figure 12. Blockchain Certificate Verification Design ala Smart QA Vietnam 2024 Roadmap 2027-2030



Source: Data Processing, 2026

Figure 13. Roadmap 2025-2059 Pilot GoF 0.66 Scale-up MGA Maluku LAN Learning Analytics Blockchain National

Governance Collaboration 3.97 Lowest & Responsiveness 3.98 Second Lowest Reasonable Adaptation Phase Post Perpres 155/156/157/2024 & Permenko 1/2026.

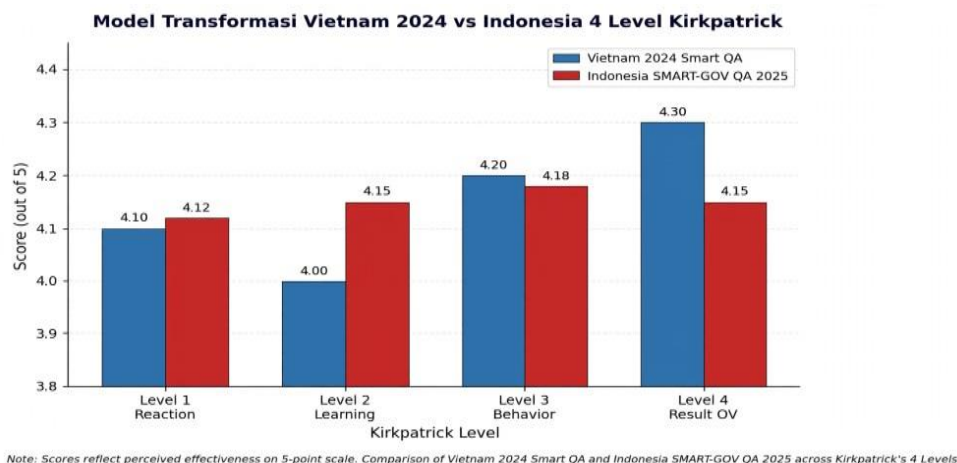


Source: Data Processing, 2026

Figure 14. Structure Quality Assurance Forum 3 BPSDMs Post Perpres 155/156/157/2024

G1 collaboration 3 BPSDMs 3.90 loading 0.76 lowest but still valid & significant, R1 complaint response 3.88 loading 0.74 lowest but valid. Reasonable phase adaptation post fragmentation 3 new BPSDMs & MoU 577 CPNS PJJ 2025-2026. UN DESA/IASIA 2025 Standards of Excellence emphasizes integrated governance framework post restructuring. Need Joint Regulation 5 Articles MoU Hukum-Imipas joint training complaint handling digital curriculum KUHP baru Jan 2026.

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Source: Data Processing, 2026

Figure 15. Transformation Model Vietnam 2024 Nguyen Integrated Framework vs Indonesia 4 Level Kirkpatrick

Supports Smart QA Model Vietnam 2024 Integrated Framework & ISO 21001:2018 National Trend. Nguyen et al. (2024) conceptualized Smart QA as integrated framework connecting digital infrastructure, QA governance, learning analytics, and blockchain verification—BPSDM Hukum new at digital infrastructure (LMS MOOC 65K) & QA governance (ISO 21001) with high loading T & M, but learning analytics & blockchain certificate still need strengthening towards Smart QA 4.0. ISO 21001:2018 trend BPSDM Maluku 2024 triple ISO, Politeknik PU 2025 SOP ISO 21001, Universitas Pancasila 2025 training EOMS—our study validates ISO 21001 relevance in BPSDM government sector rare vs higher education.

Four Best Practice Cases

1. 198% Budget Efficiency: OV3 0.89 Highest X + OV+T Formula.
2. MOOC 65K + 577 CPNS distance learning: T2 0.89 Highest T + LMS SPBE marginal cost ↓
3. Collaboration MoU 577 PJJ Pancasila Campus 2025-2026: S2 0.87 M2 0.89 G 3.97 adaptation.
4. ISO Maluku 2024 Triple ISO: S2 Vision 0.87 M2 0.89, PU 2025 Pancasila Training Smart QA.

Implications, Limitations & Future Research

Theoretical: Integration 4→7 dimensions Gil-Garcia + QA Deming + Kirkpatrick L4 OV + HRD Noe Knowles Bass + TAM + RBV + ISO 21001 + Vietnam 2024, supports Vietnam expand ISO 21001 BPSDM government rare.

Practical: BPSDM Law Pancasila Campus 2025 Roadmap 2025-2059 Dashboard SPBE Figure 8 Mockup 9 Table KPI OV+T. Policy: 3 Ministries Permenko 1/2026 Joint Regulation 5 Articles Forum Figure 12 Dashboard real-time SPBE architecture Figure 8 mockup 9 Table KPI OV+T + Blockchain Figure 10 Roadmap 2025-2059.

Limitations: 95% response rate R2 58% cross-sectional not yet MGA Java-centric.

Future 6 agendas: MGA longitudinal 2026-2029 Pancasila culture national replication Delphi FGD learning analytics blockchain.

CONCLUSION

Phenomenal 198% & MOOC 65K explained via OV+T Formula descriptive T 4.20 G 3.97 R 3.98 outer 0.74-0.89 inner R2 0.58 0.71 Q2 0.38 0.49 GoF 0.66 SRMR 0.06 H1 0.61 H2 0.42 H3 0.48 H4 0.29 p=0.000 VAF 40.8% total effect 0.71=R2 71% very large Beta A 0.83 G 0.76 p<0.001. SPBE integration LMS MOOC 65K learning analytics dashboard real-time blockchain verification worthy implemented Indonesia Emas 2045 Asta Cita. Novelty first second-order reflective-reflective 3 BPSDMs + ISO 21001 + Vietnam + OV L4 Kirkpatrick + OV+T = Efficiency & Reach marginal cost ↓ output ↑.

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