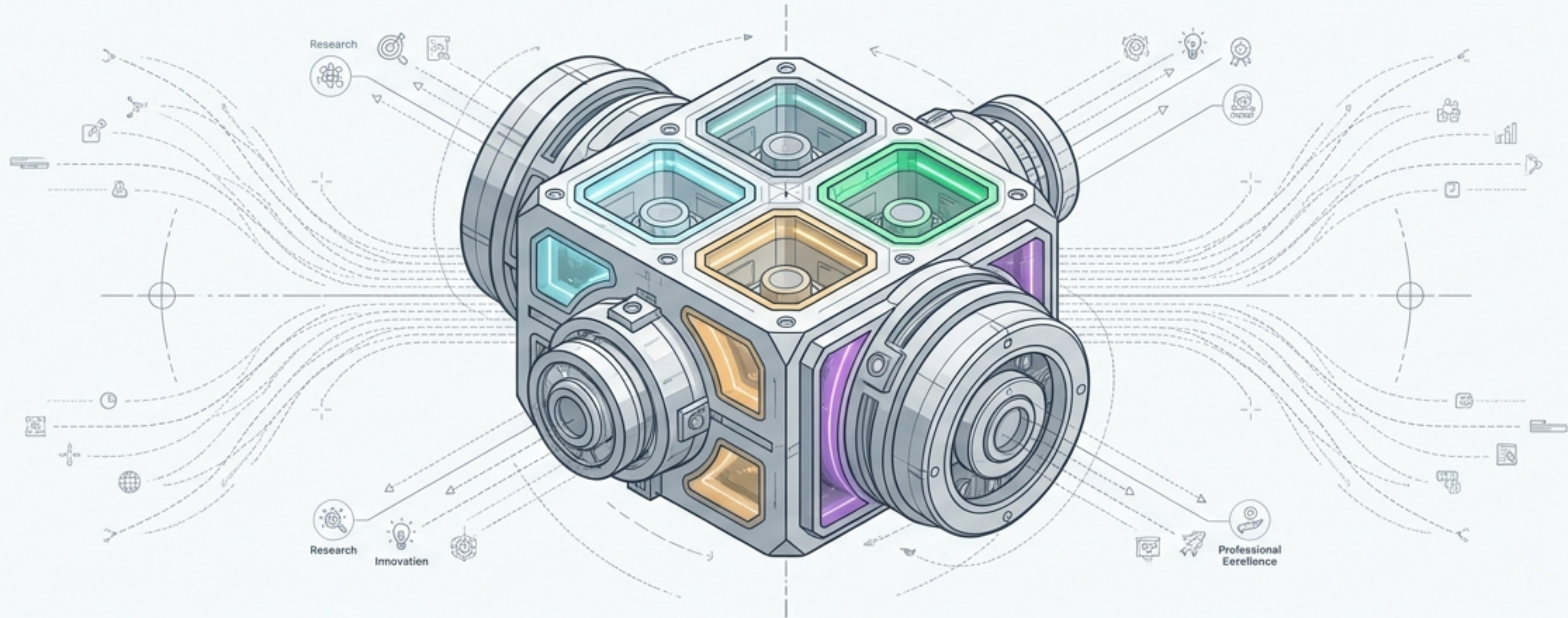


The Anatomy of Academic Impact



A diagnostic breakdown of Domain 2: Research, Innovation & Professional Excellence under the DRONĀ Certification Scheme (350 Marks / 35% Weightage).

Baseline Expectations by Faculty Category



Teaching-Intensive
Faculty

200 Marks

Reduced expectation for Domain 2; primary performance emphasis remains heavily on Domain 1 (Teaching & Student Success).



Teaching & Research
Faculty

350 Marks

Balanced, standard expectation requiring robust performance across all assessment domains.



Research-Intensive
Faculty

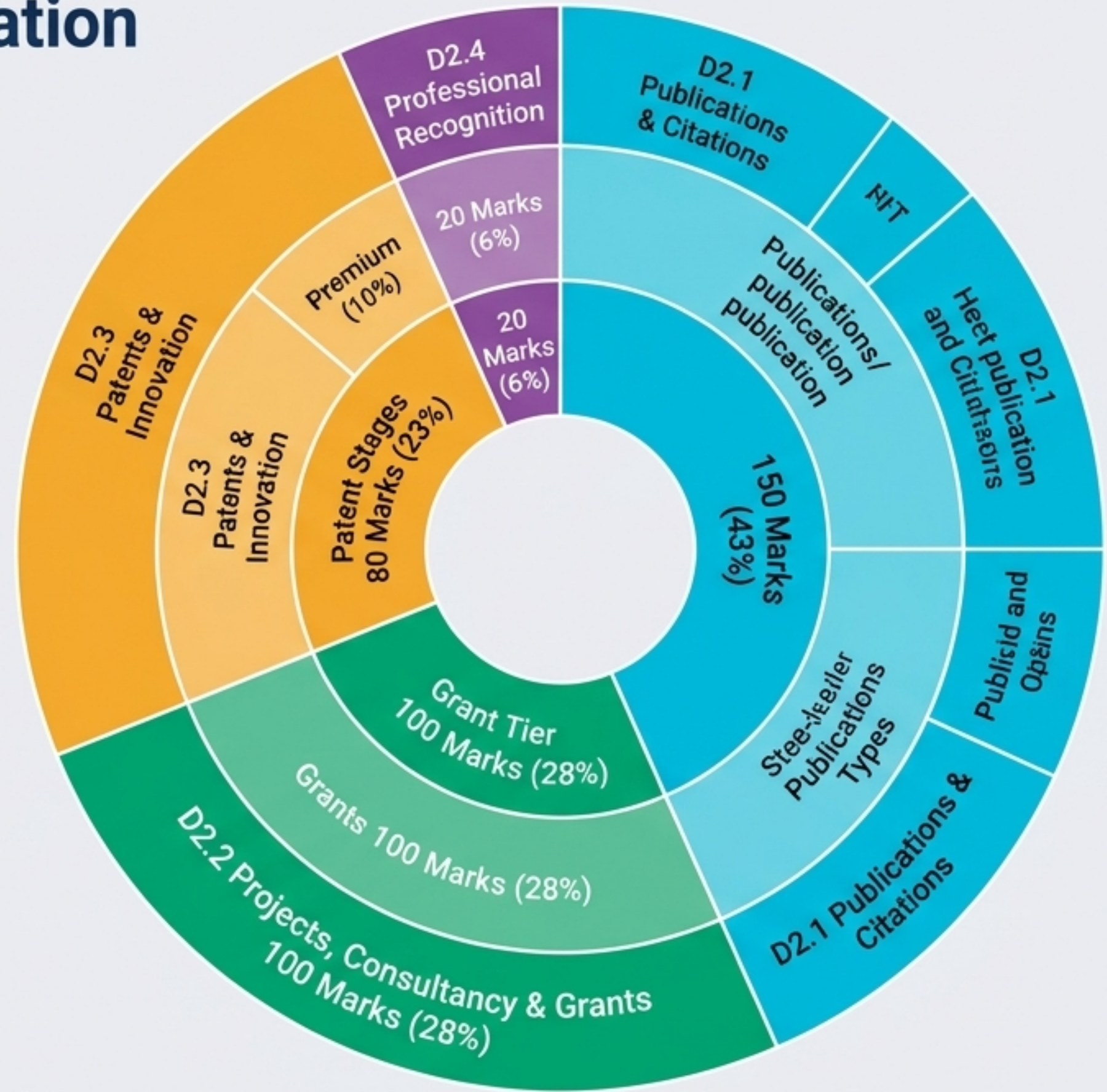
500 Marks

CRITICAL REQUIREMENT:
Must score a **minimum of 180 marks strictly** in **Domain 2** to qualify for certification.

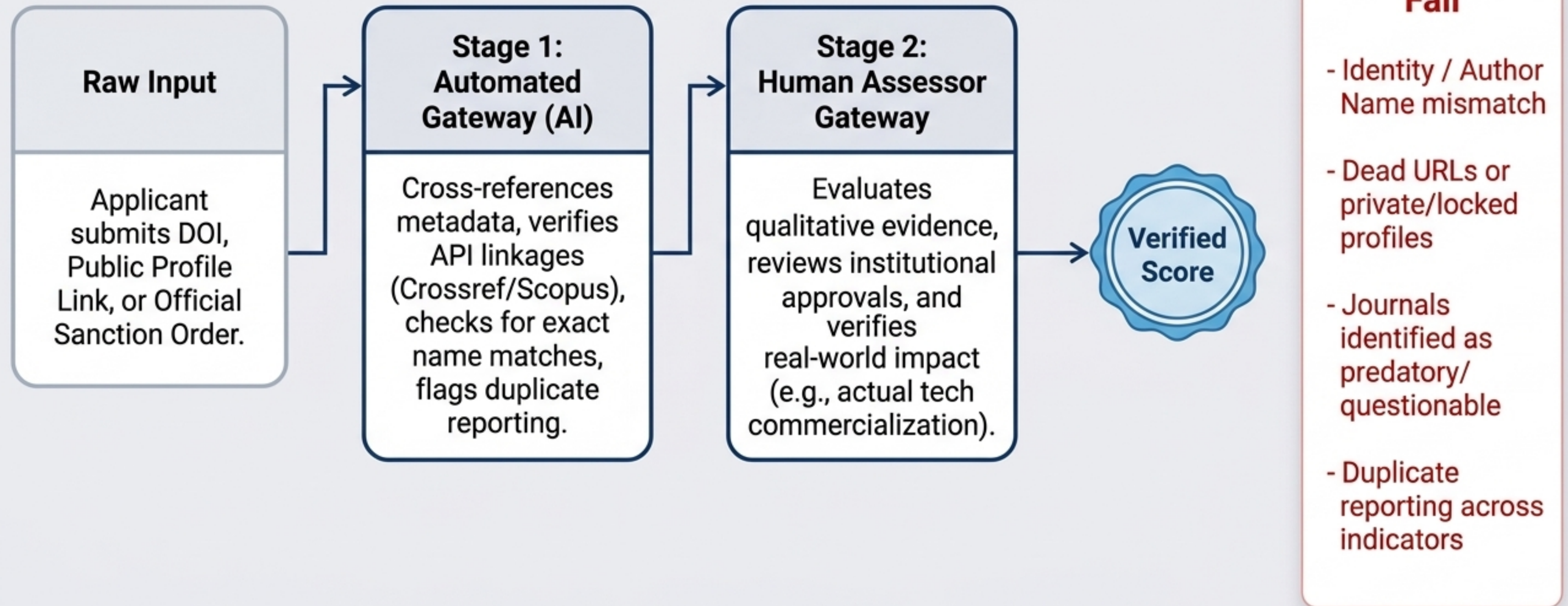
TAKEAWAY: The RIPE domain shifts from a supporting credential to a **mandatory assessment gateway** depending on your specific institutional role.

The 350-Mark Master Allocation

- D2.1 Publications & Citations: 150 Marks (43%)
- D2.2 Projects, Consultancy & Grants: 100 Marks (28%)
- D2.3 Patents & Innovation: 80 Marks (23%)
- D2.4 Professional Recognition: 20 Marks (6%)

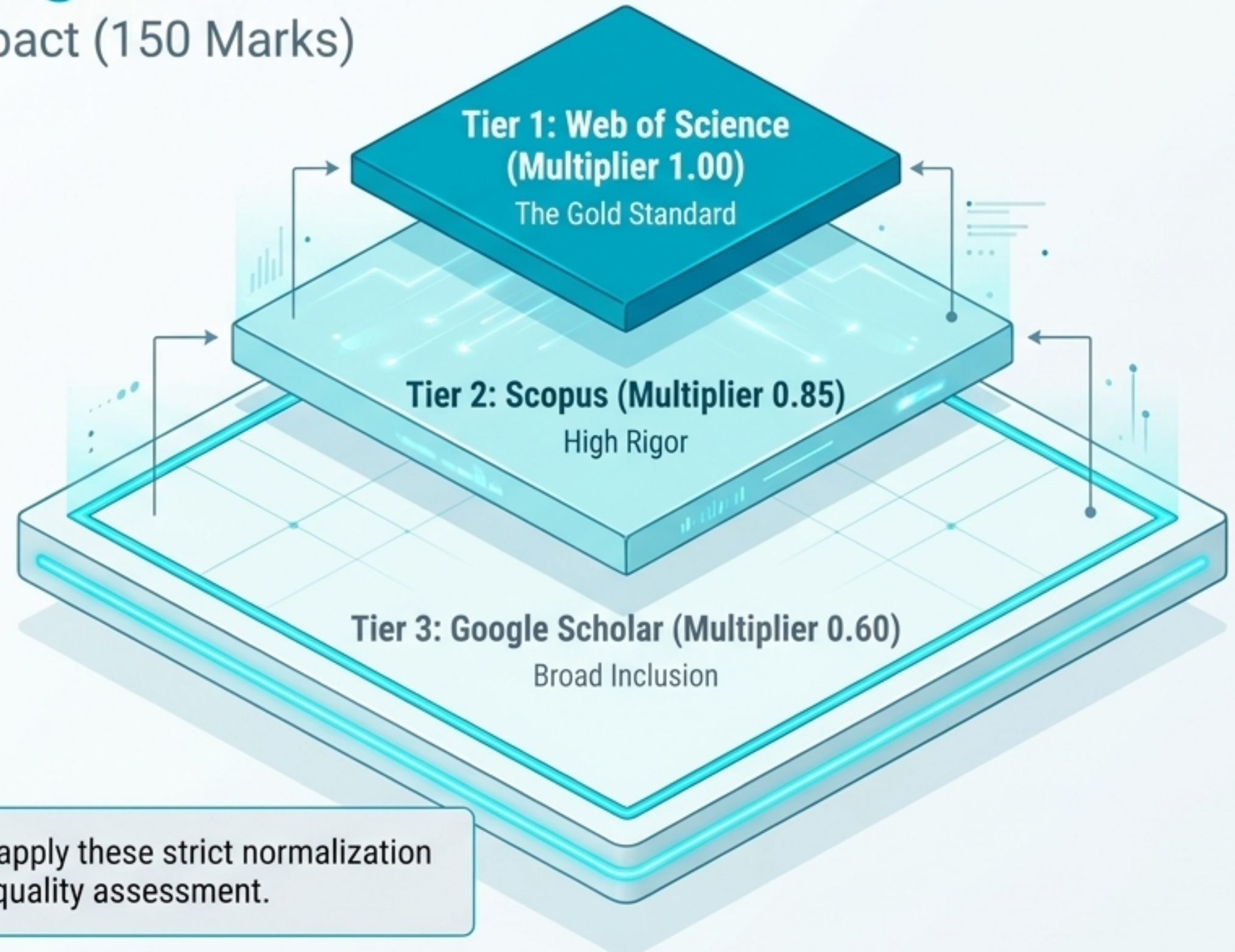


The Assessment Architecture: AI + Human Verification



Subdomain 2.1: Knowledge Generation

Research Publications & Citation Impact (150 Marks)



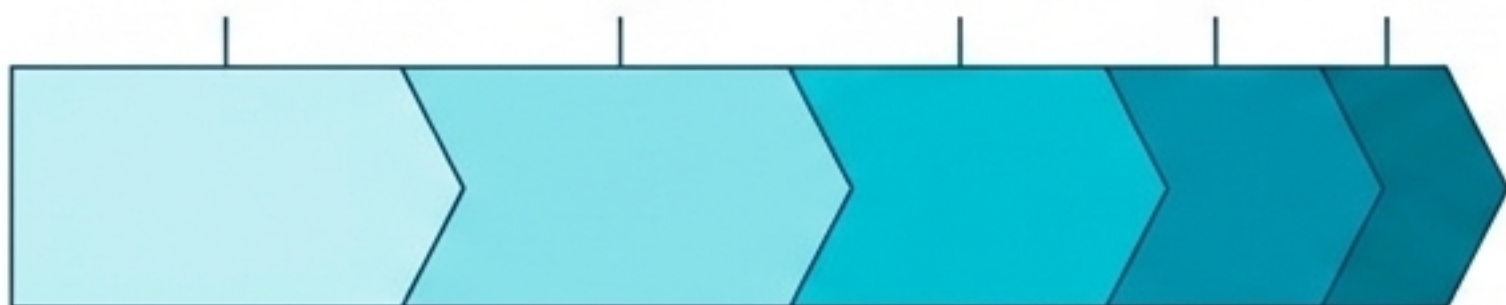
System Rule: All automated scoring algorithms in D2.1 apply these strict normalization weights to raw publication metrics to ensure objective quality assessment.

Assessing Core Journal Output & Influence

D2.1.1 Scopus/WoS Journal Pubs (80 Marks)

Metric: Raw volume of indexed articles, reviews, and technical papers.

≥ 100 pubs = 80m | 50-90 = 50m | 30-40 = 30m | 10-30 = 15m | 1-10 = 5m

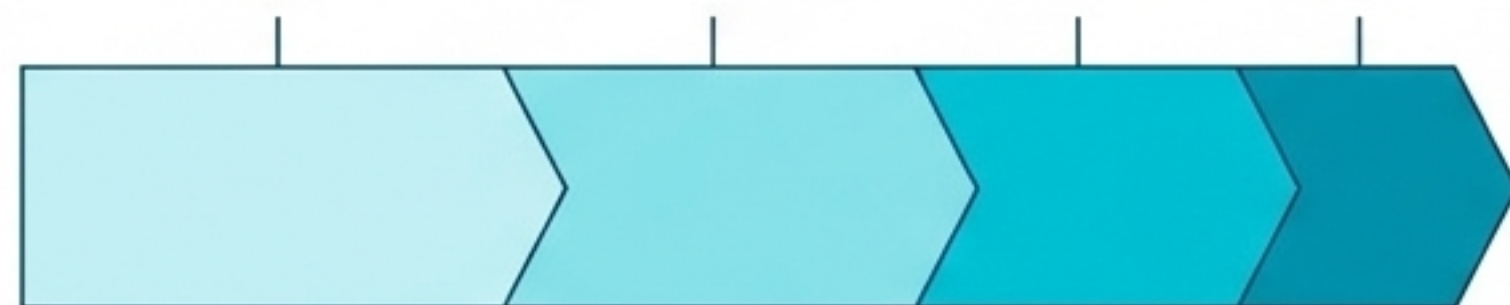


Rejection Flag: Invalid DOIs, retracted papers, or predatory journals.

D2.1.2 Citation Impact (20 Marks)

$$\text{WCS} = (\text{WoS} \times 1.00) + (\text{Scopus} \times 0.85) + (\text{GS} \times 0.60)$$

$\text{WCS} \geq 500 = 20\text{m}$ | $200-499 = 15\text{m}$ | $50-199 = 10\text{m}$ | $<50 = 5\text{m}$



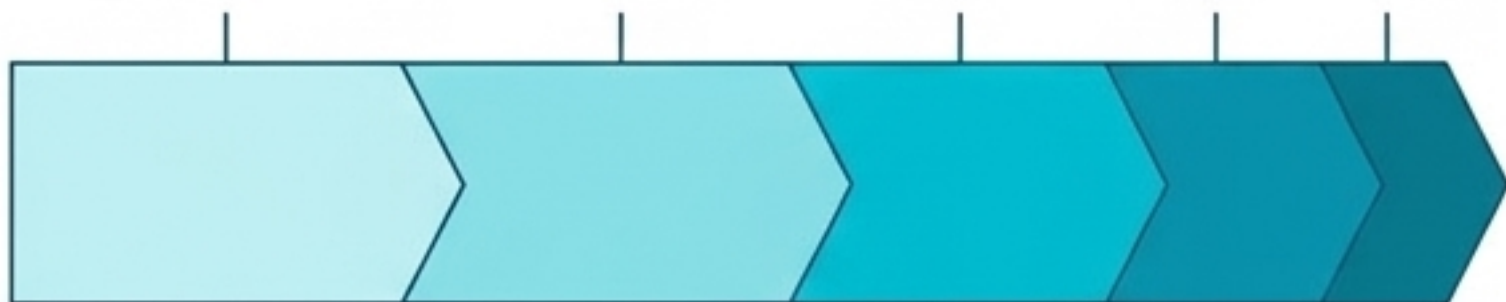
Evidence Gate: Public, accessible profile URLs are mandatory.

Scholarly Metrics & Long-Form Dissemination

D2.1.3 h-index & Scholarly Metrics (20 Marks)

Formula Engine: Uses the identical normalized multiplier (WoS 1.00, Scopus 0.85, GS 0.60) applied to raw h-index.

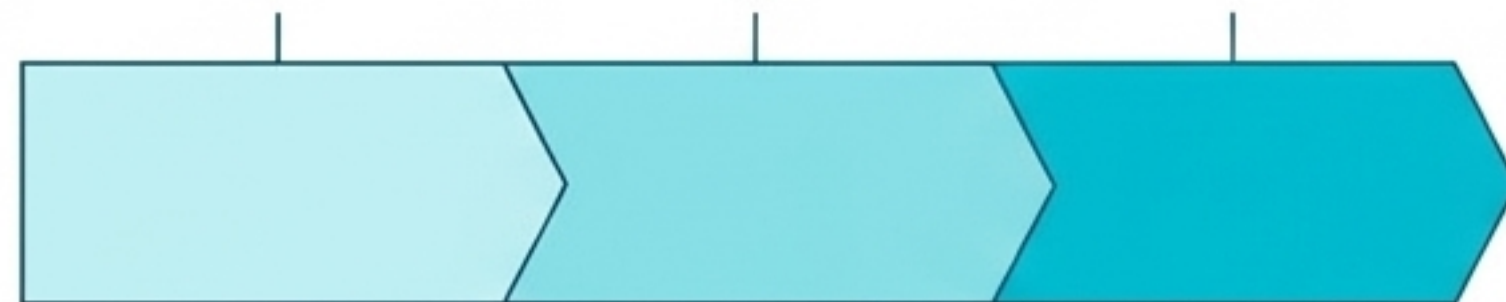
Adj. h-index $\geq 25 = 20m$ | $15-24.9 = 15m$ | $5-14.9 = 10m$ | $<5 = 5m$



D2.1.4 Books & Edited Volumes (10 Marks)

$$WPS = (\text{Authored} \times 1.00) + (\text{Edited} \times 0.75) + (\text{Chapter} \times 0.25)$$

WPS $\geq 5 = 10m$ | $2-4.99 = 7.5m$ | $1-1.99 = 5m$



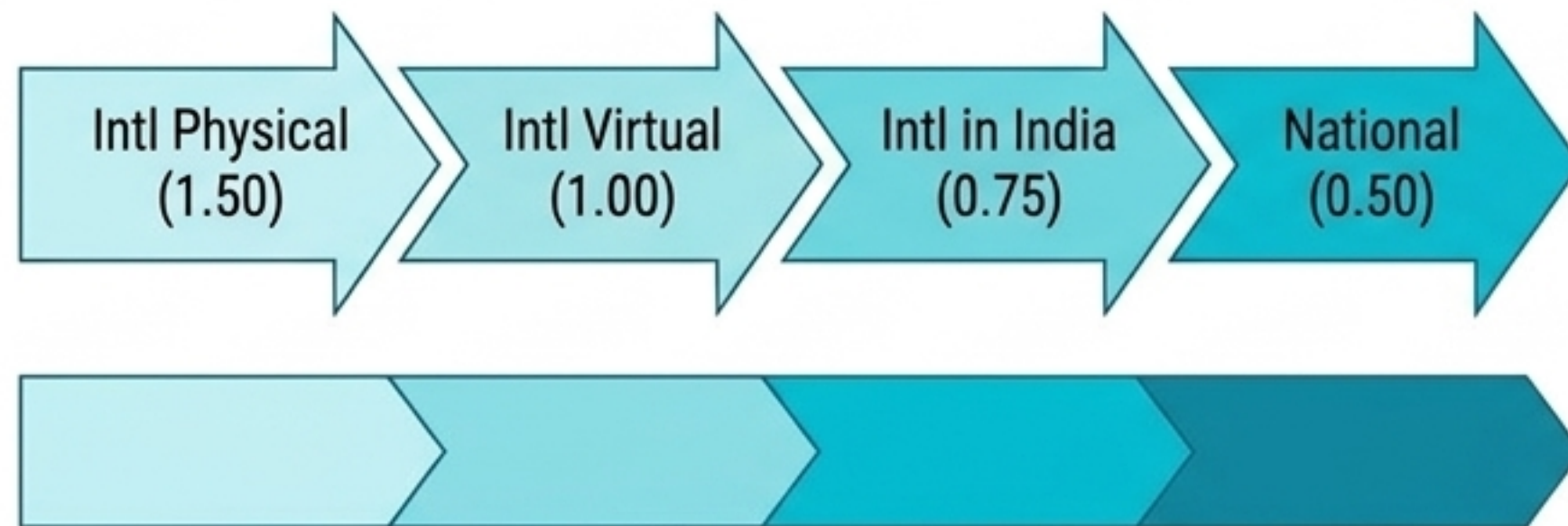
Evidence Gate: Verifiable ISBN/DOI required.



Red Flag: Self-declared unpublished manuscripts strictly rejected.

D2.1.5 Global Academic Engagement (20 Marks)

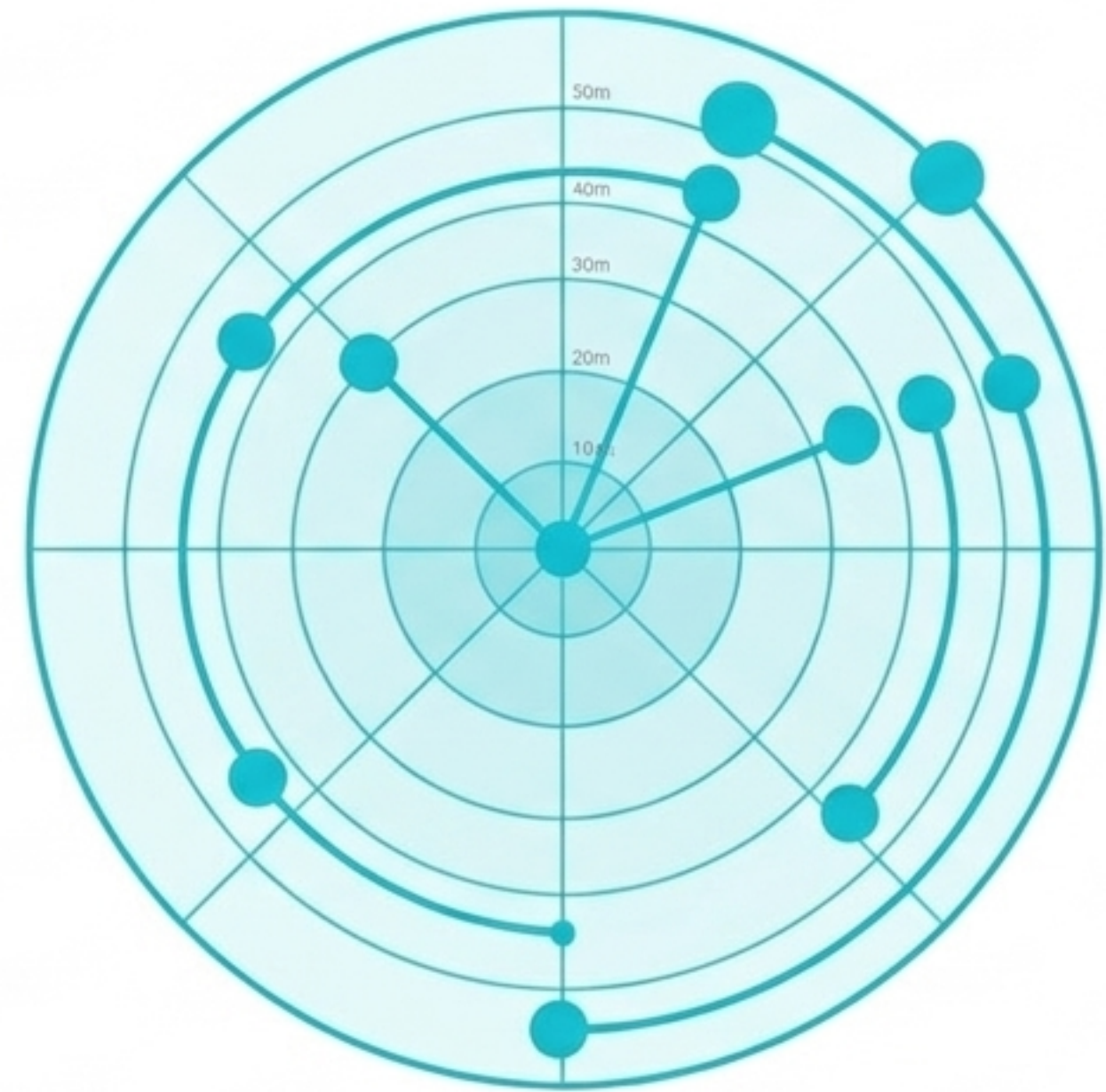
The Conference Performance Score (CPS) Engine



CPS $\geq 10 = 20m$ | 5-9.99 = 15m | 2-4.99 = 10m | $<2 = 5m$

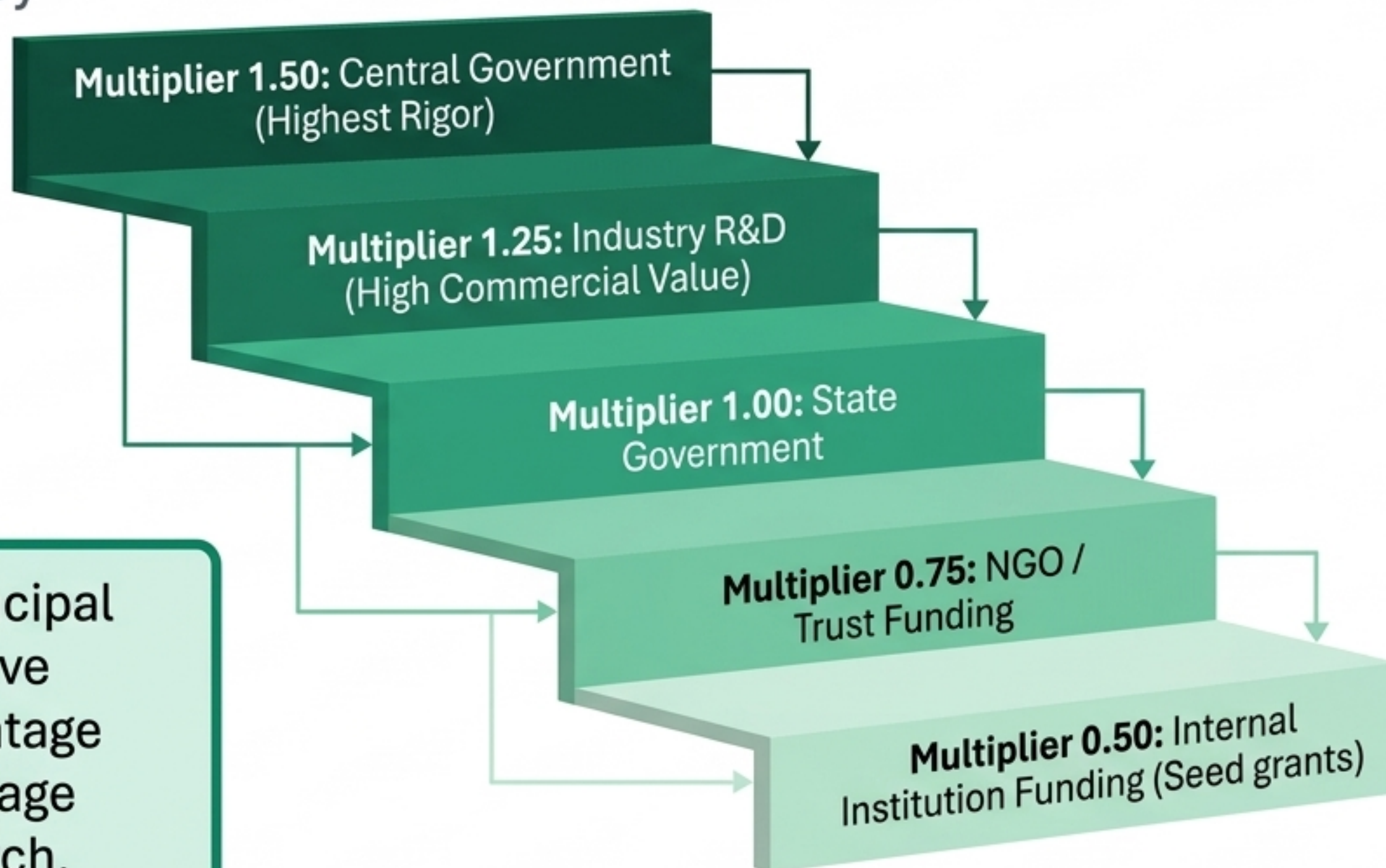


Evidence Gate: Full paper publication AND presentation certificate required. Merely attending yields 0 marks.



Subdomain 2.2: Financial Mobilization

Funded Projects, Consultancy
& Grants (100 Marks)



Crucial Assessment Rule: Principal Investigator (PI) and Co-PI receive EXACTLY equal academic weightage under this framework to encourage large-scale collaborative research.

Securing Capital for Innovation

D2.2.1 Sanctioned Projects (50 Marks)

Metric: Volume of funded projects secured.

Project Score $\geq 6 = 50m$ | $3-5.99 = 30m$ | $1-2.99 = 15m$

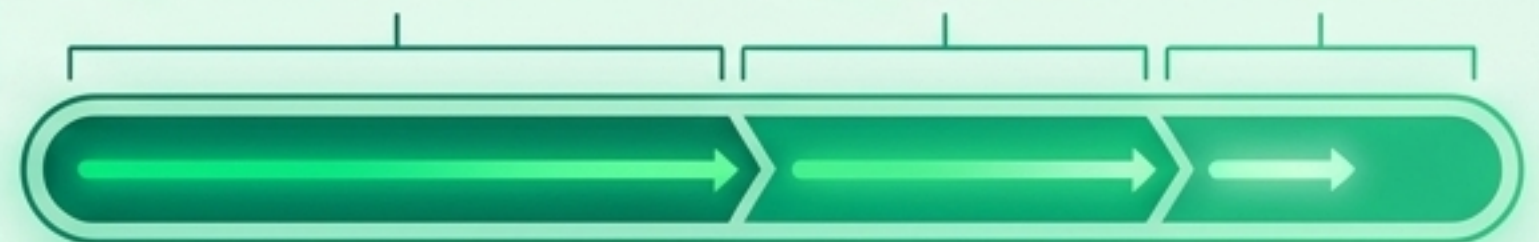


 **Evidence Gate:** Official sanction orders with verified financial commitment.

D2.2.2 Total Grant Amount (10 Marks)

Metric: Total financial value secured (in Lakhs INR), multiplied by the Funding Source Matrix weights.

Weighted Score $\geq 100 = 10m$ | $25-99.9 = 6m$ | $1-24.9 = 3m$



 **Rejection Flag:** Equipment donations without formal sanctioned project frameworks.

D2.2.3 Consultancy Projects Completed (20 Marks)

The Consultancy Score (CS) Formula

$$\text{CS} = (\text{Industry} \times 1.25) + (\text{Government} \times 1.00) + \text{Revenue Bonus}$$



Bonus Trigger: If total consultancy revenue $\geq$ Rs 5 Lakhs, add +0.50 to the final CS score.

CS $\geq$ 5 = 20m

2-4.99 = 15m

1-1.99 = 10m



Diagnostic Red Flags: MoUs without actual execution, informal advisory discussions, or unpaid training programs are instantly rejected.

D2.2.4 The RECS Architecture (20 Marks)

Deconstructing the Research
Ecosystem Contribution Score.

Physical Capital:
Minor Infrastructure (0.50)
+ Facility Upgrade (1.00)

1-3.99 = 10m

4-7.99 = 15m

RECS ≥ 8 = 20m

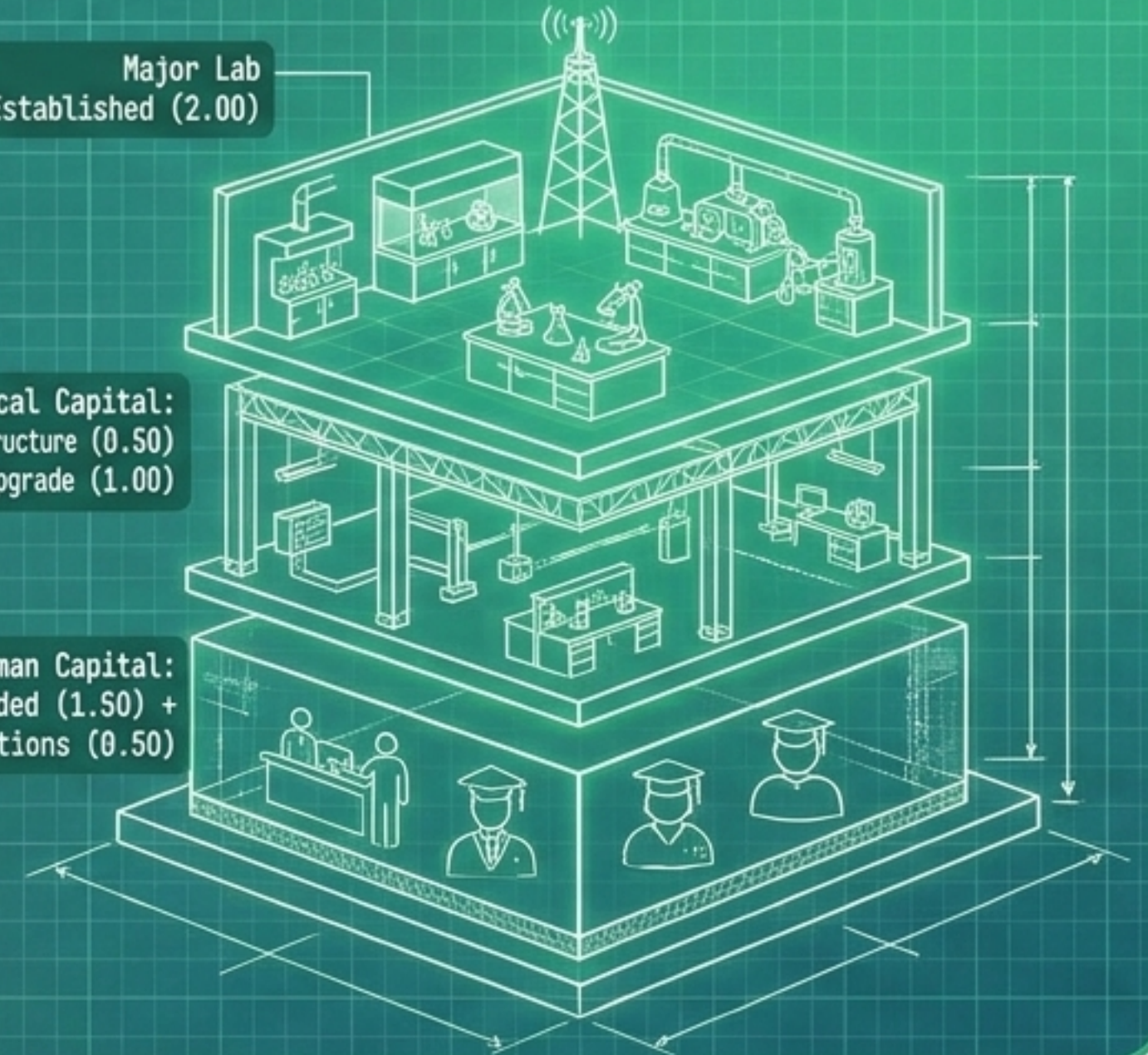


Evidence Gate: Must strictly link
outputs to official institutional records
of facility creation or graduation.

Major Lab
Established (2.00)

Physical Capital:
Minor Infrastructure (0.50)
+ Facility Upgrade (1.00)

Human Capital:
PhD Guided (1.50) +
PG Dissertations (0.50)



Subdomain 2.3: Commercial Translation

Patents, Innovation & Tech Development (80 Marks)

**Stage 1:
Published
(20 Marks)**

Raw IP protection.

**Stage 2:
Granted
(20 Marks)**

Examiner validated.
Technical merit proven.

**Stage 3:
Commercialized
(20 Marks)**

Market adoption.
Revenue generation.

System Rule: The DRONĀ scheme heavily penalizes stagnation. IP must move through the pipeline to yield maximum marks. Design patents and Copyrights are completely excluded; only Utility Patents qualify.

Protecting Intellectual Property

D2.3.1 Patents Published (20 Marks)

$$\text{PPS} = (\text{Indian} \times 1.00) + (\text{International} \times 1.50)$$

1-1.99 = 5m | 2-3.99 = 15m | PPS $\geq$ 4 = 20m

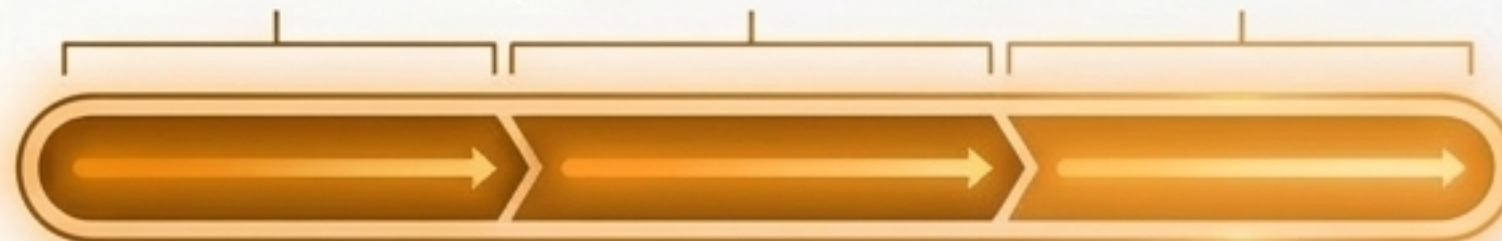


Evidence Gate: Patent application proof and official metadata.

D2.3.2 Patents Granted (20 Marks)

$$\text{PGS} = (\text{Indian} \times 1.00) + (\text{International} \times 1.50)$$

1-1.99 = 10m | 2-3.99 = 15m | PGS $\geq$ 4 = 20m



Rejection Flag: Patent remains only at application stage without a final grant certificate.

D2.3.3 Commercialization & Tech Transfer (20 Marks)

The Translation Score (TCS) Formula

$$\text{TCS} = (\text{Licensing} \times 1.50) + (\text{Industry Adoption} \times 1.00) + \text{Revenue Bonus}$$

Revenue Bonus Trigger: If licensing revenue $\geq$ Rs 10 Lakhs, add +0.50 to TCS.

TCS $\geq 3 = 20\text{m}$

1.5-2.99 = 10m

$<1.5 = 5\text{m}$



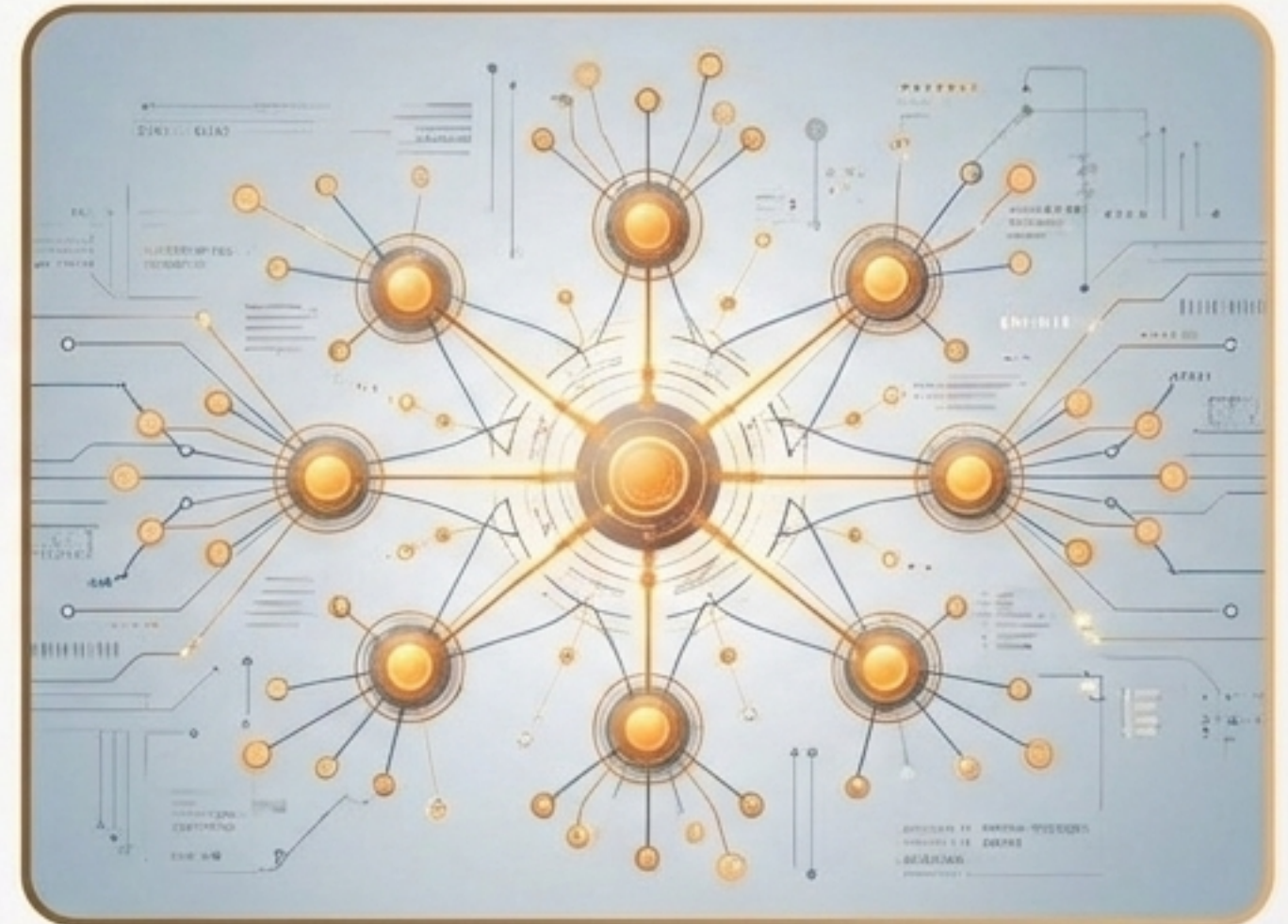
Diagnostic Red Flags: Publications claimed here, MoUs without actual transfer execution, and technology demonstrations without actual industry adoption are rejected.

D2.3.4 Startup & Incubation Ecosystem (20 Marks)

The Startup Impact Score (SIS) Engine

- Weight 2.00: Faculty established as Startup Founder/Co-founder.
- Weight 1.50: Startup officially incubated.
- Weight 1.00: Innovation ecosystem activity (mentoring, leading incubators).

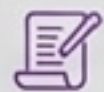
SIS $\geq 4 = 20m$ | $2-3.99 = 15m$ | $1-1.99 = 5m$



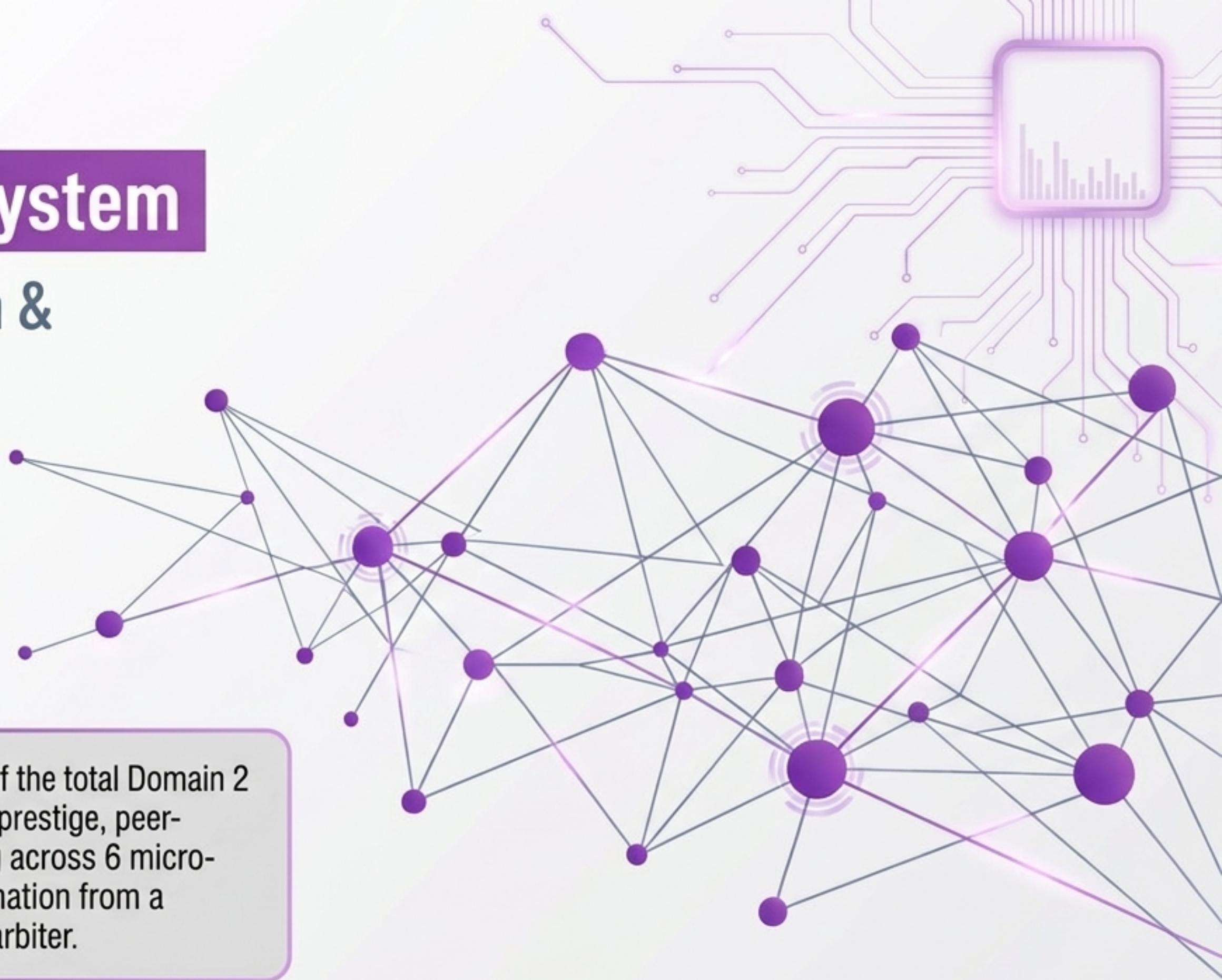
Evidence Check: Official incorporation documents (CIN), DPIIT recognition, or formal incubator selection letters are mandatory.

Subdomain 2.4: The Academic Ecosystem

Professional Recognition & Academic Engagement (20 Marks)



Concept: While contributing only 6% of the total Domain 2 score, this section meticulously maps prestige, peer-review service, and global networking across 6 micro-indicators. It tracks the vital transformation from a knowledge creator into a knowledge arbiter.

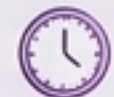


Continuous Development & Peer Service

D2.4.1 FDPs & Certifications (2m)

Formula:

Certs(1.5) +
+ FDP $\geq$ 30h(1.0) +
FDP<30h(0.5).

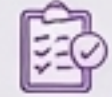


Max 2 marks for score
 ≥ 3 .

D2.4.2 Editorial & Reviewer Roles (5m)

Formula:

Editorial Pos.(1.5) +
+ Reviewer Role(0.5)
+ Verified
Reviews(0.1/each).



 **Gate:** Publons/WoS
verification required.
Predatory journals
rejected.

D2.4.3 Memberships (2m)

Hierarchy:

Intl Fellow(2.0)
-> Natl Fellow(1.5)
-> Senior Member(1.0)
-> Member(0.5).



Max 2 marks for score
 ≥ 4 .

External Prestige & Global Footprint

D2.4.4 Awards & Recognition (5m)

Hierarchy:

Intl(2.0)
-> Natl(1.5)
-> State(1.0)
-> Inst(0.5).

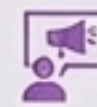


Max 5 marks for score
 ≥ 4 .

D2.4.5 Invited Talks (3m)

Hierarchy:

Intl Keynote(1.5)
-> Natl/State
Keynote(1.0)
-> Institutional Talk(0.5).



Max 3 marks for score
 ≥ 3 .

D2.4.6 International Engagement (3m)

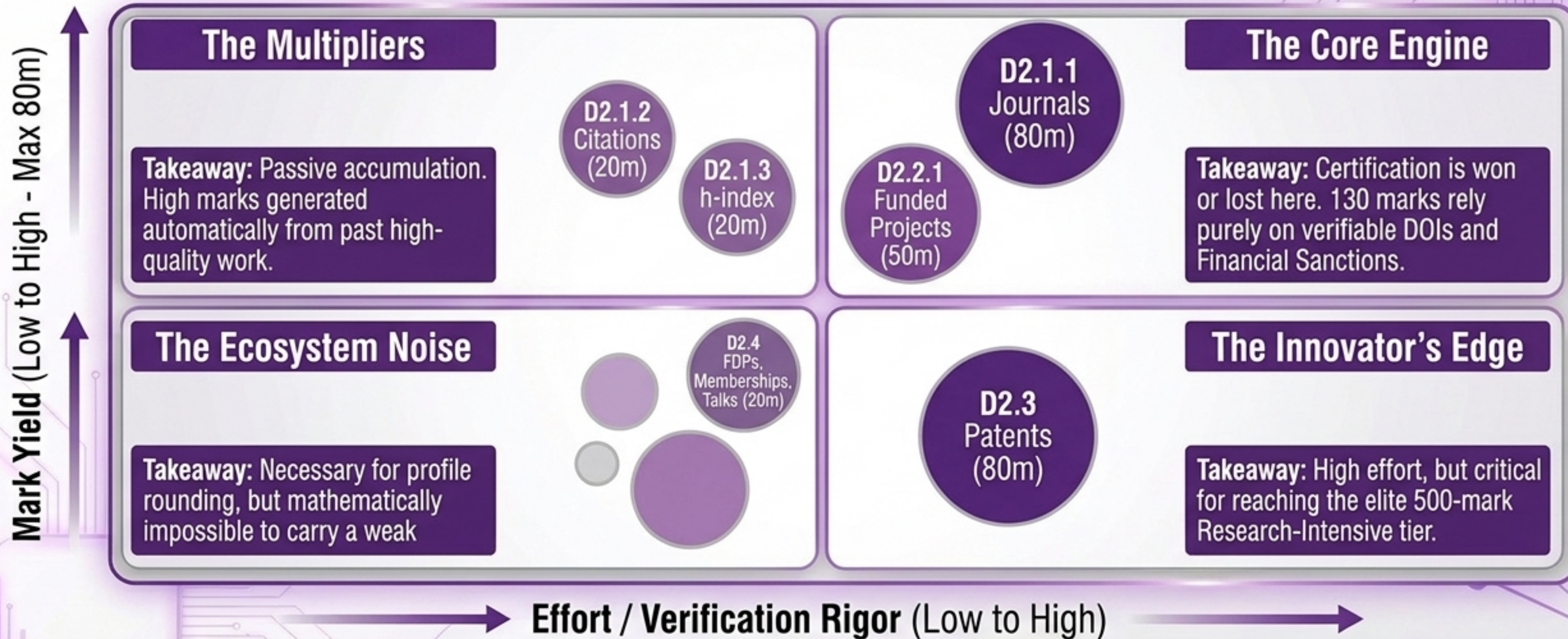
Hierarchy:

Visiting Faculty/Post-
Doc(1.5)
-> Physical Visit(1.0)
-> Virtual(0.75).



Max 3 marks for score
 ≥ 2 .

The High-Yield Path: Strategic Certification



FINAL MASTER TAKEAWAY: The DRONĀ AI favors irrefutable digital outputs (DOIs, API-linked Citations, Sanction Orders) over claimed activities. Build the Core Engine first.