

A framework to scope logistics initiatives

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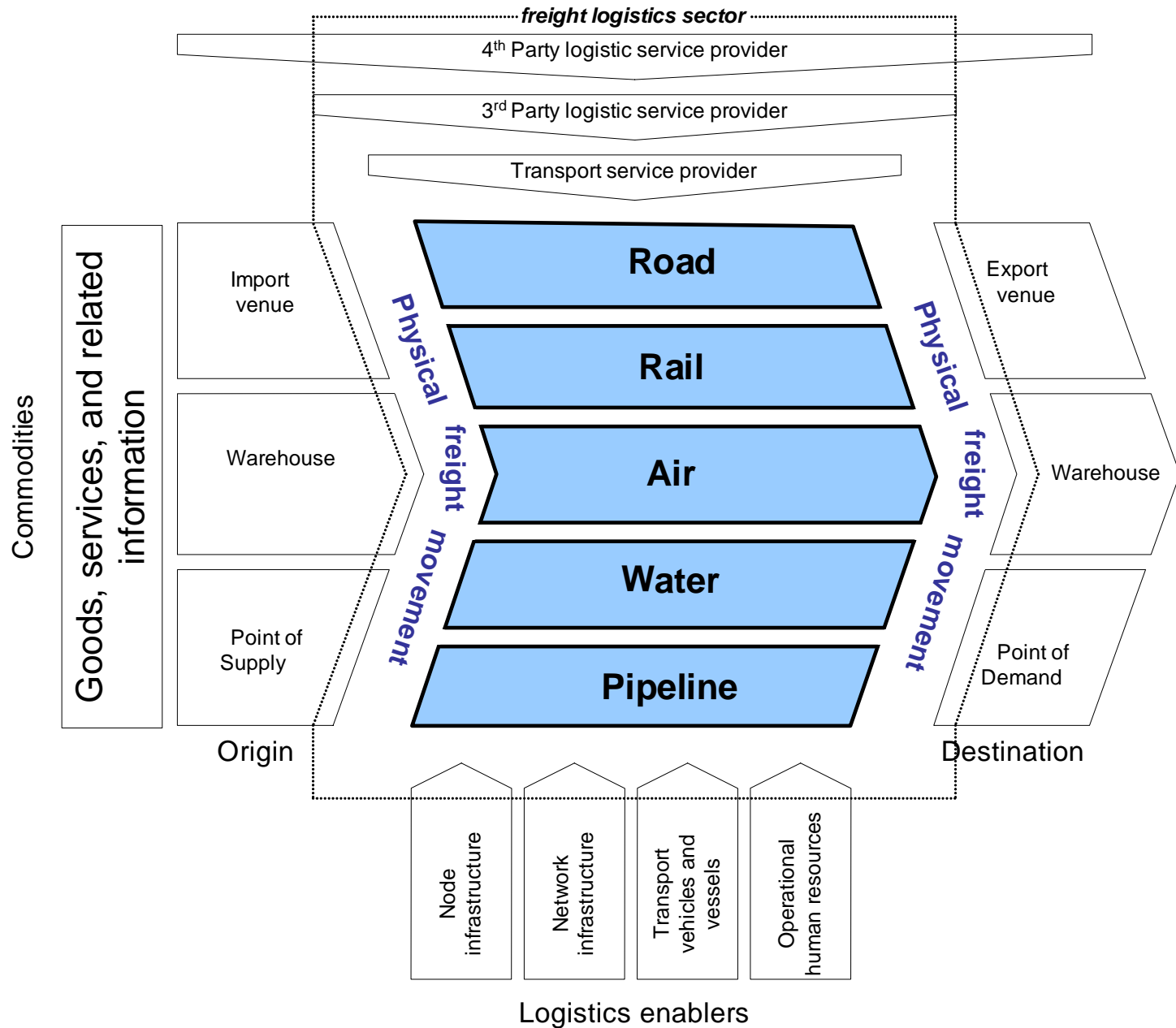
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Presentation outline

- Perspective on Logistics
- Joburg Metro's Economic Development Unit (EDU)
- The proposed framework
- Example
- Scoping an initiative
- Calculating stakeholder fitness
- Research agenda

Perspective on logistics

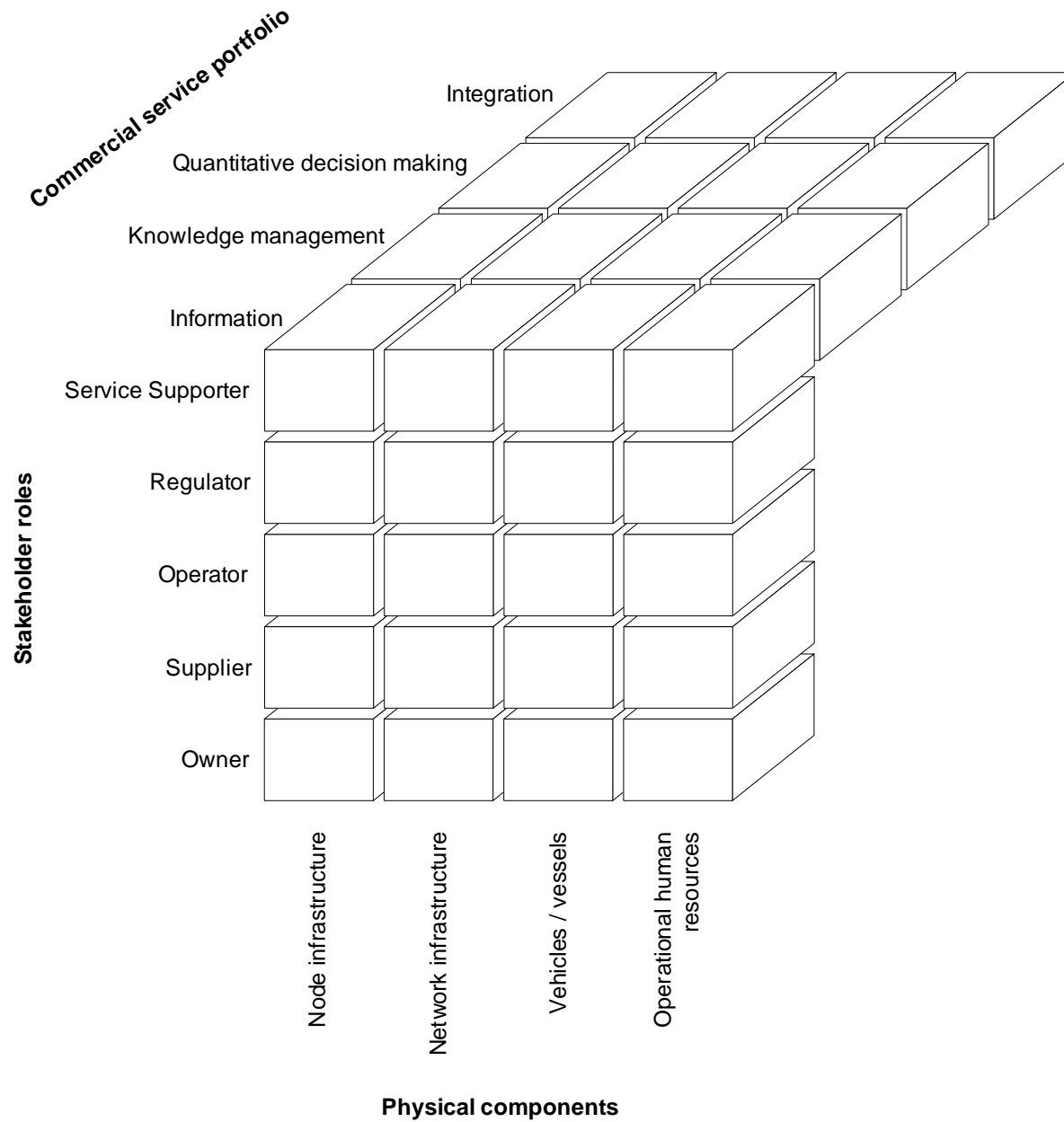


Joburg's Economic Development Unit (EDU)

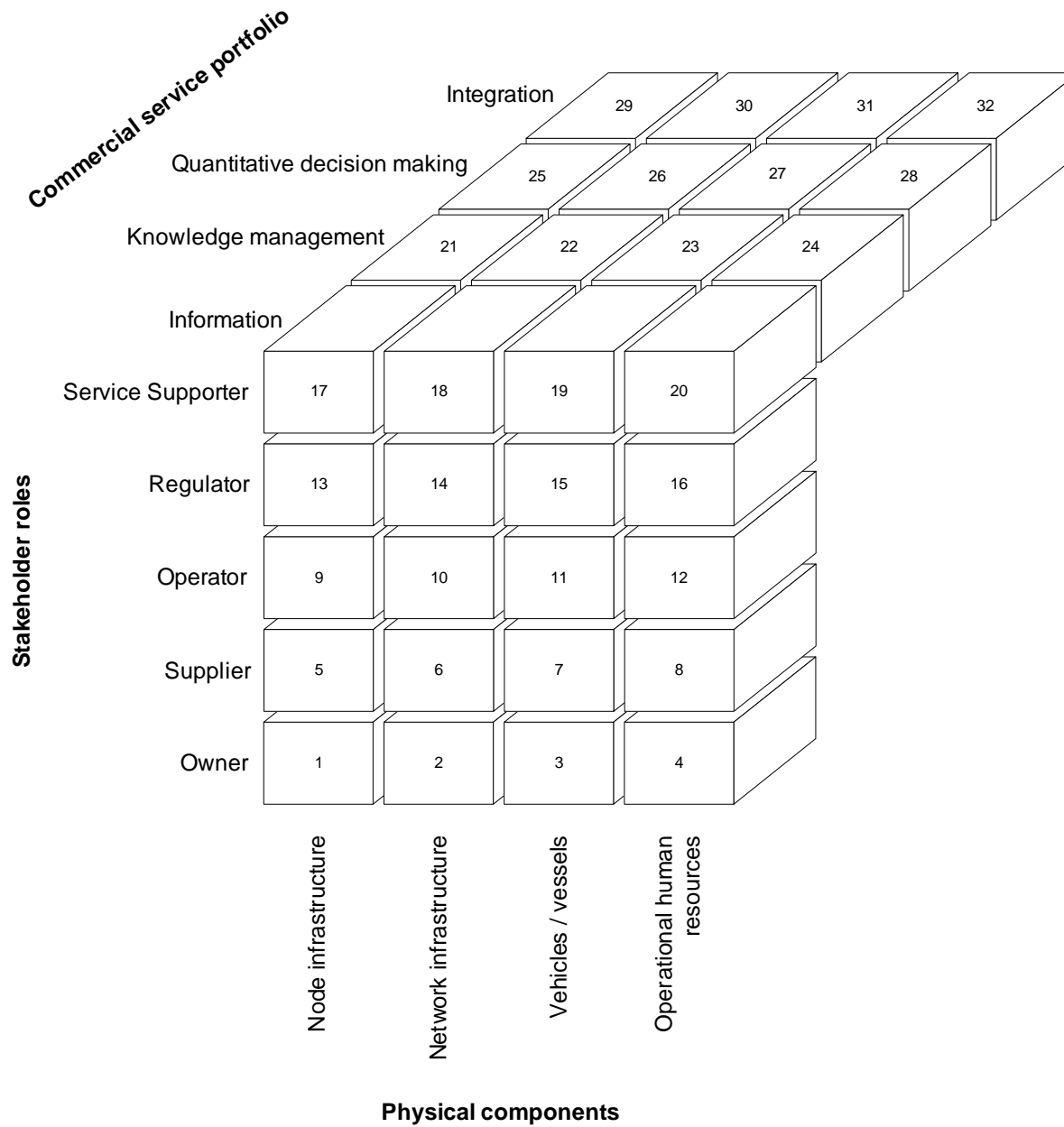
- Freight logistics acknowledged in Integrated Transport Plans at metropolitan (city) level
- 9 Cities Network and the Transport Working Group
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- Sustainability — a political ideology
- Return on investment requires beneficiaries to invest in
- Beneficiaries' participation required in project identification
- Careful selection of beneficiaries required

Proposed framework

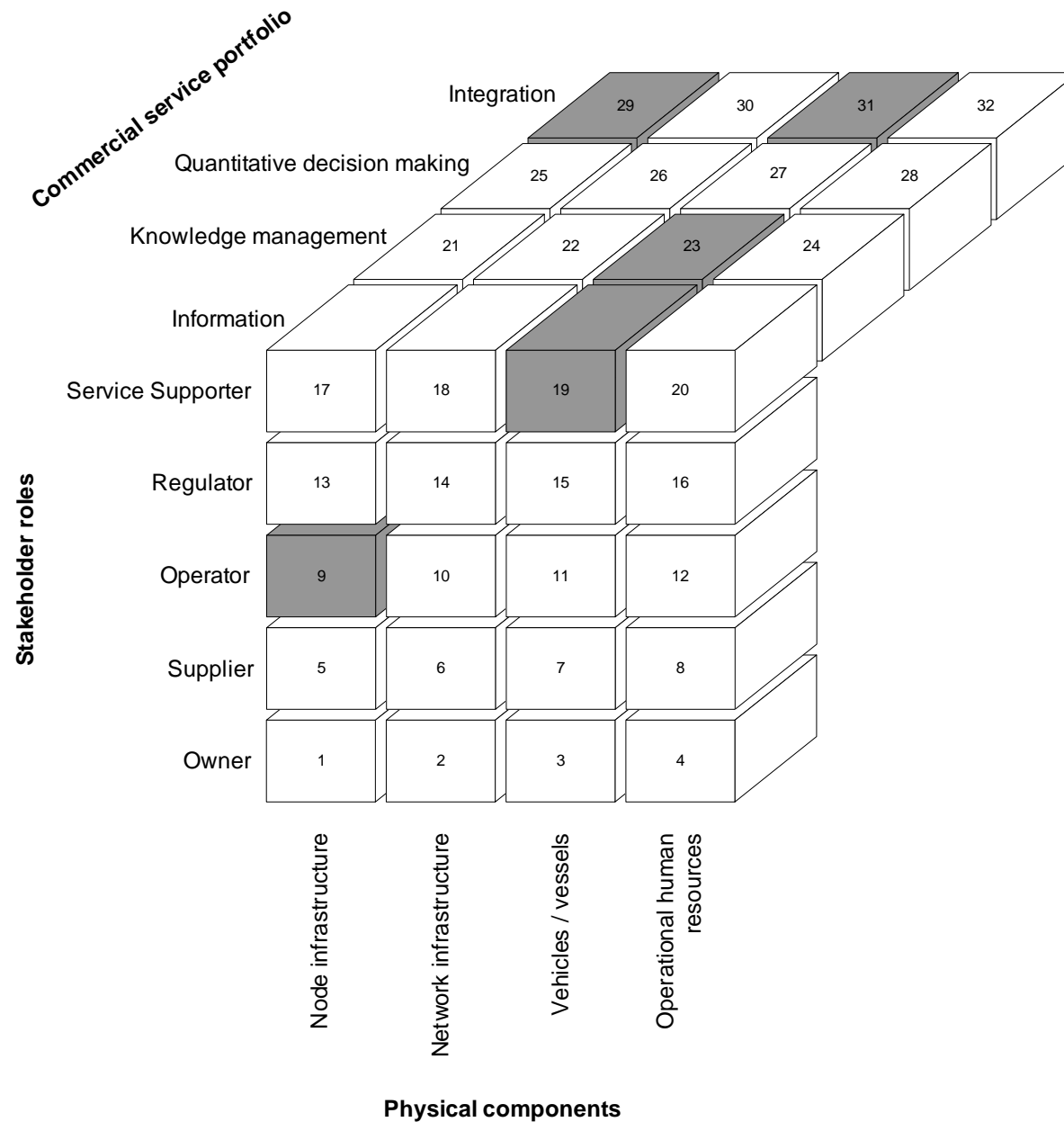
Proposed framework



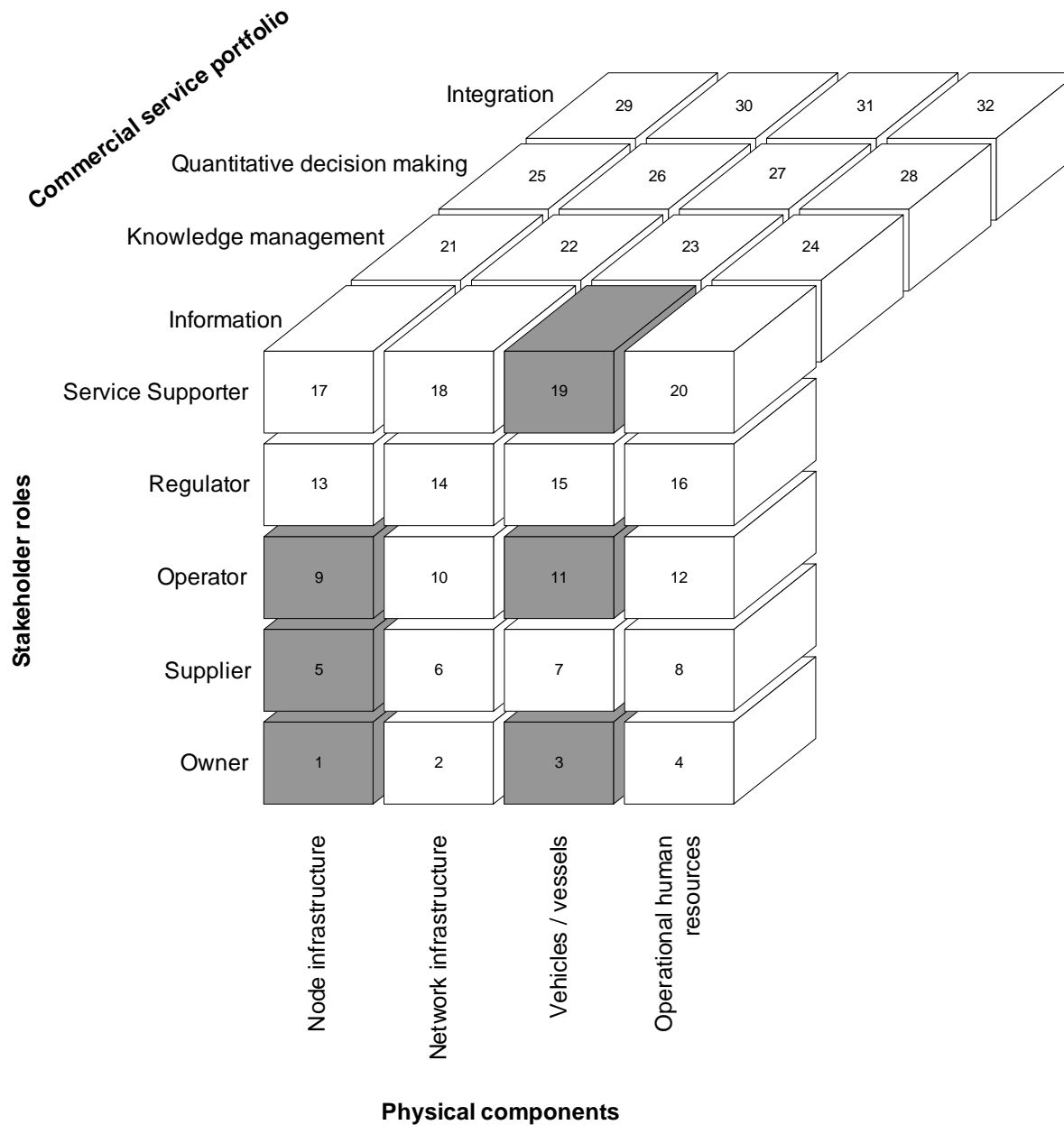
Proposed framework



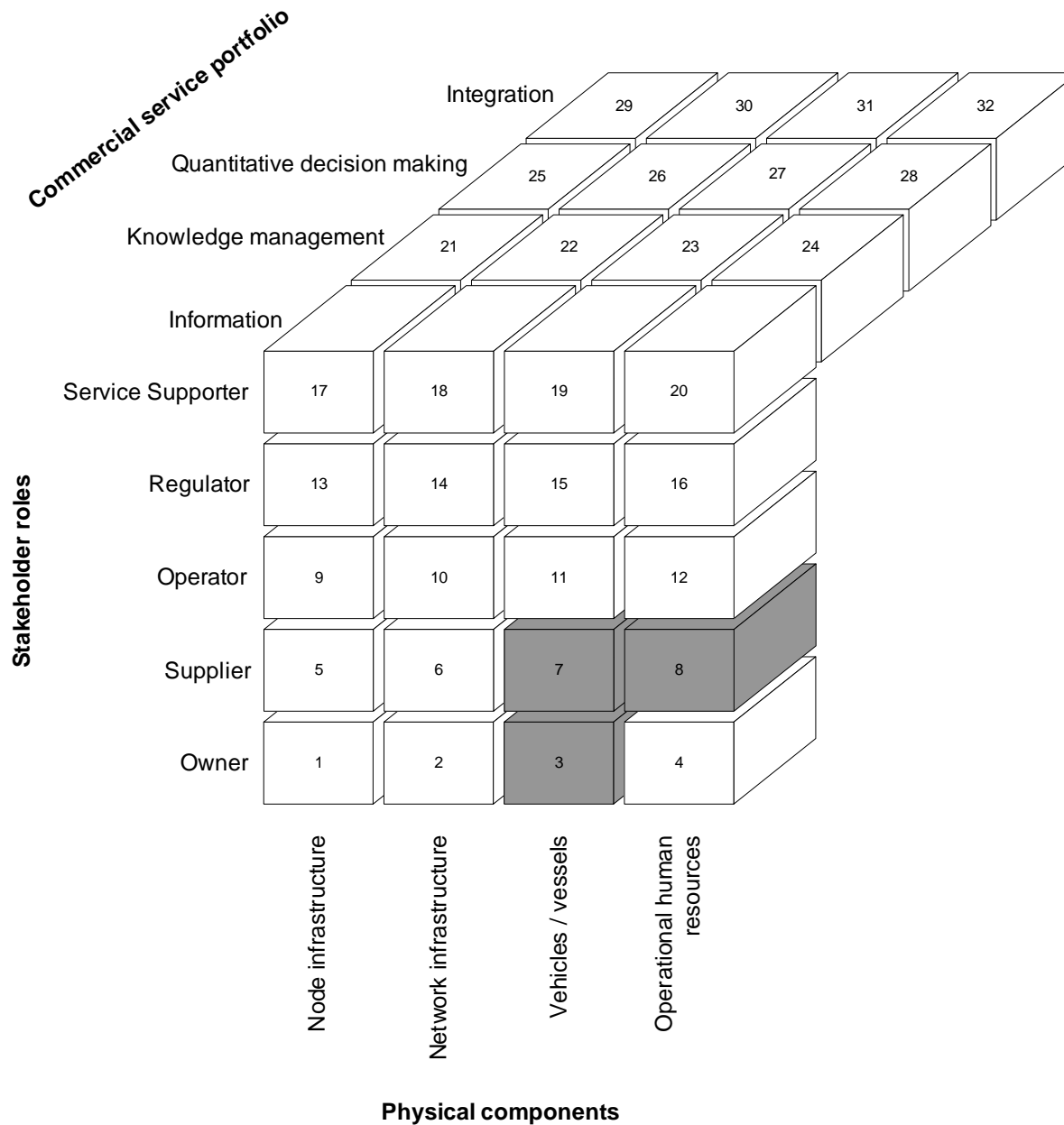
Proposed framework — an example



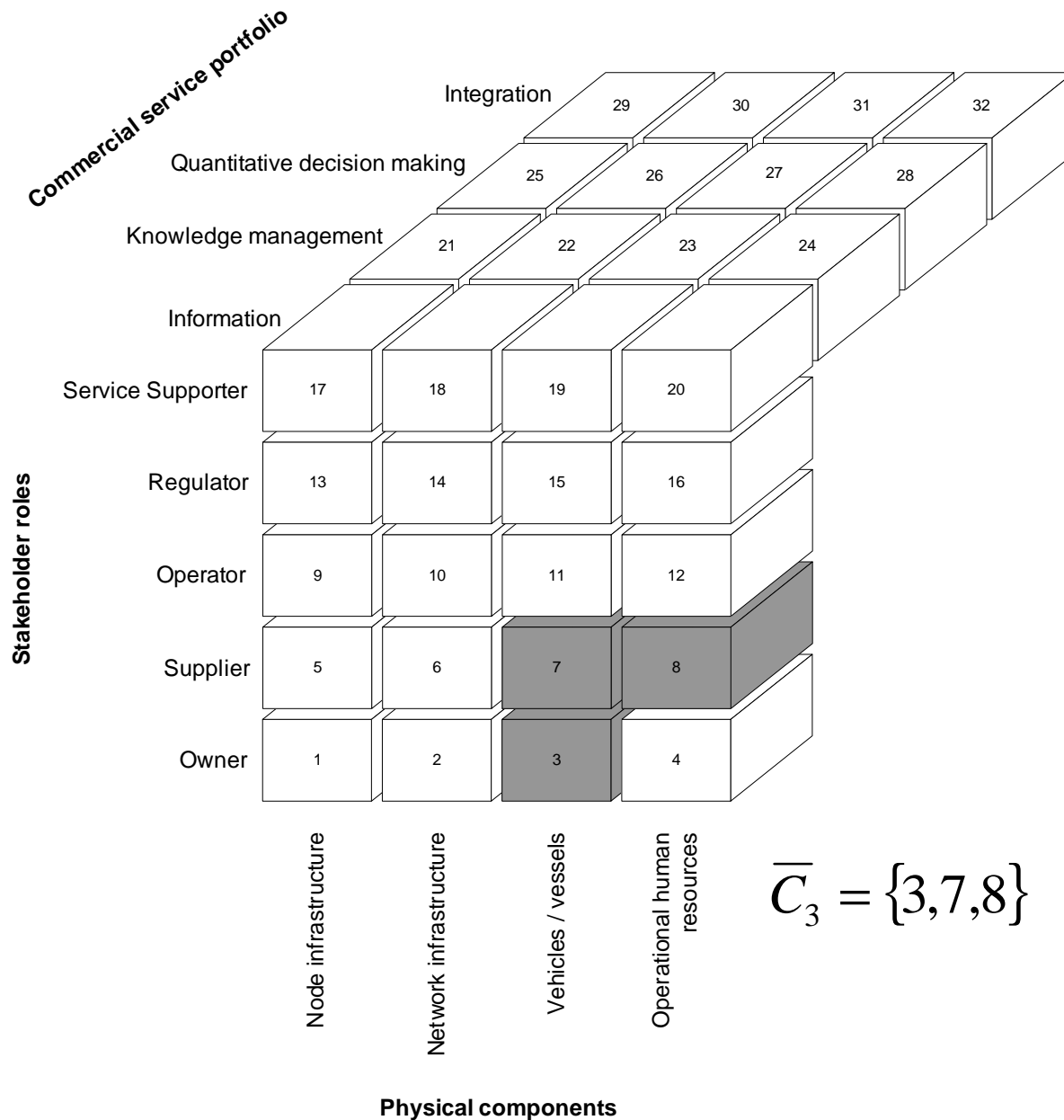
Proposed framework — an example



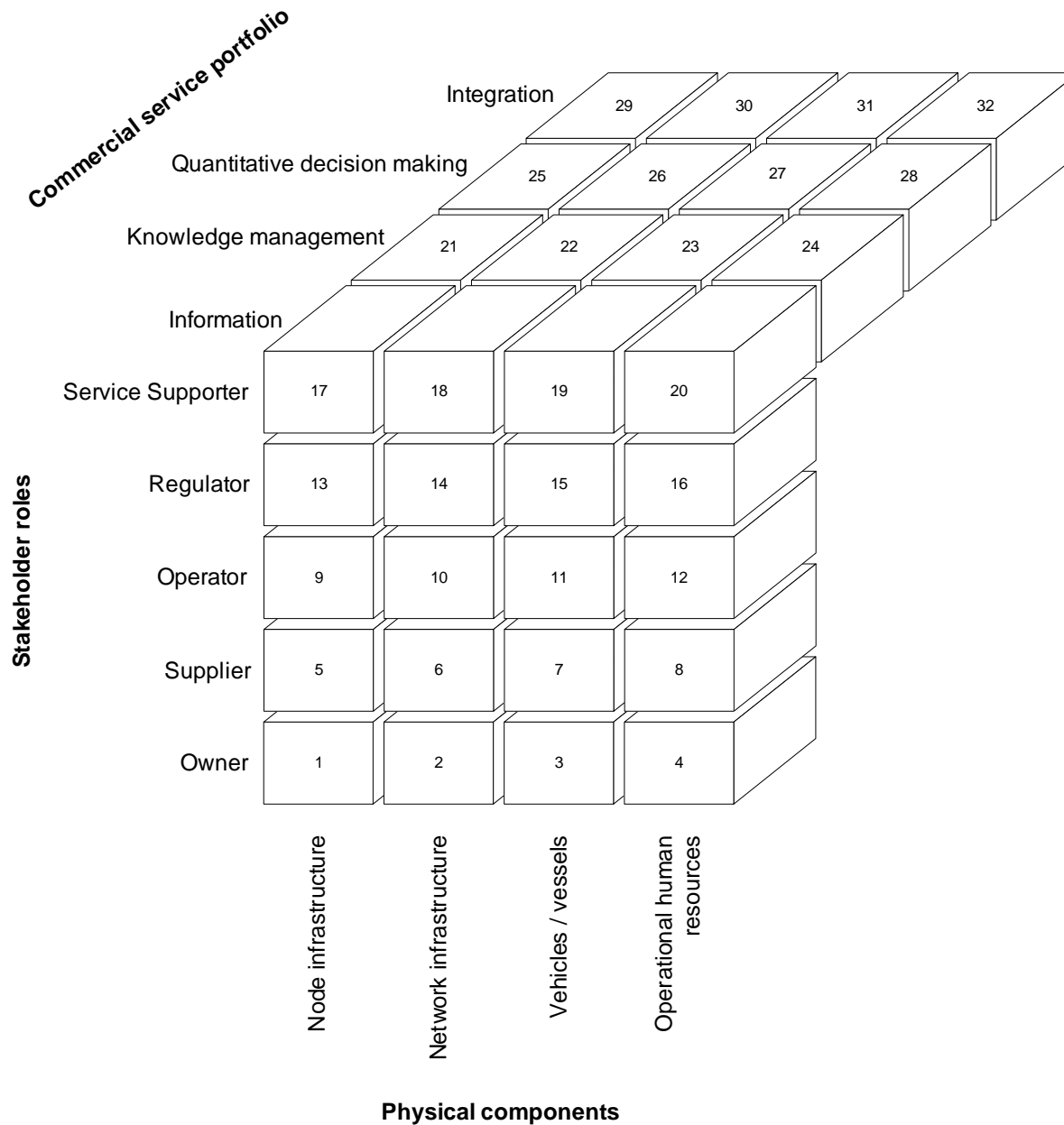
Proposed framework — an example



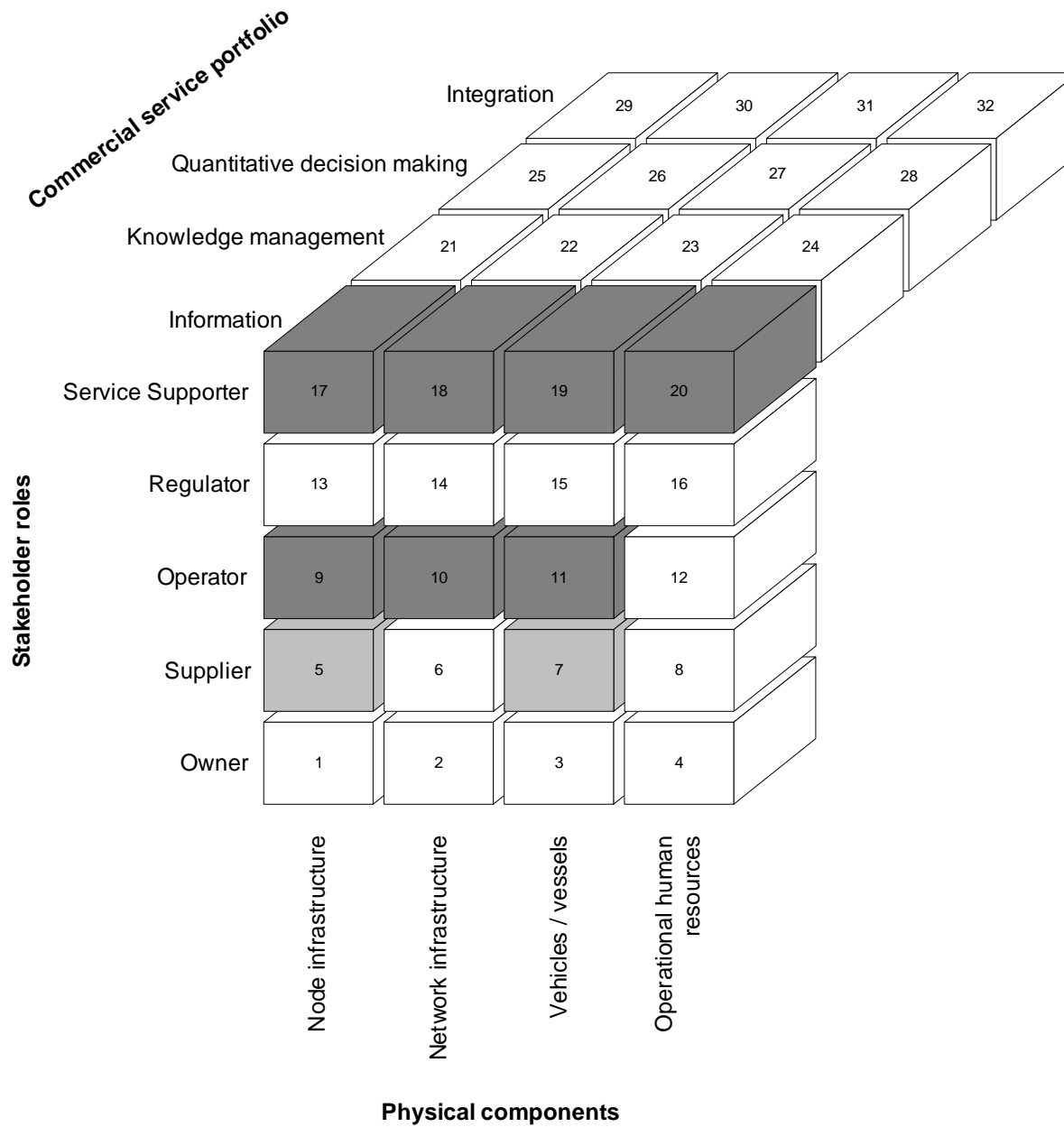
Proposed framework — an example



Scoping an initiative



Scoping an initiative



Stakeholder fitness

$$s_i = \frac{2 \times \|\overline{H} \cap \overline{C}_i\| + \|\overline{L} \cap \overline{C}_i\|}{2 \times \|\overline{H}\| + \|\overline{L}\|}, \forall i \in \{1, 2, \dots, I\}$$

Stakeholder fitness

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	Company				
	1	2	3	4	5
Calculated fitness	25%	44%	6%	31%	63%

	Company				
	6	7	8	9	10
Calculated fitness	19%	19%	19%	19%	13%

Research agenda

Research agenda

- Eliminate ambiguity of elements through questionnaire
- Refine the calculation of fitness — penalize (or promote):
 - ◆ Service offering
 - ◆ Scope of initiative

Research agenda

*** **Thank you** ***