

Note

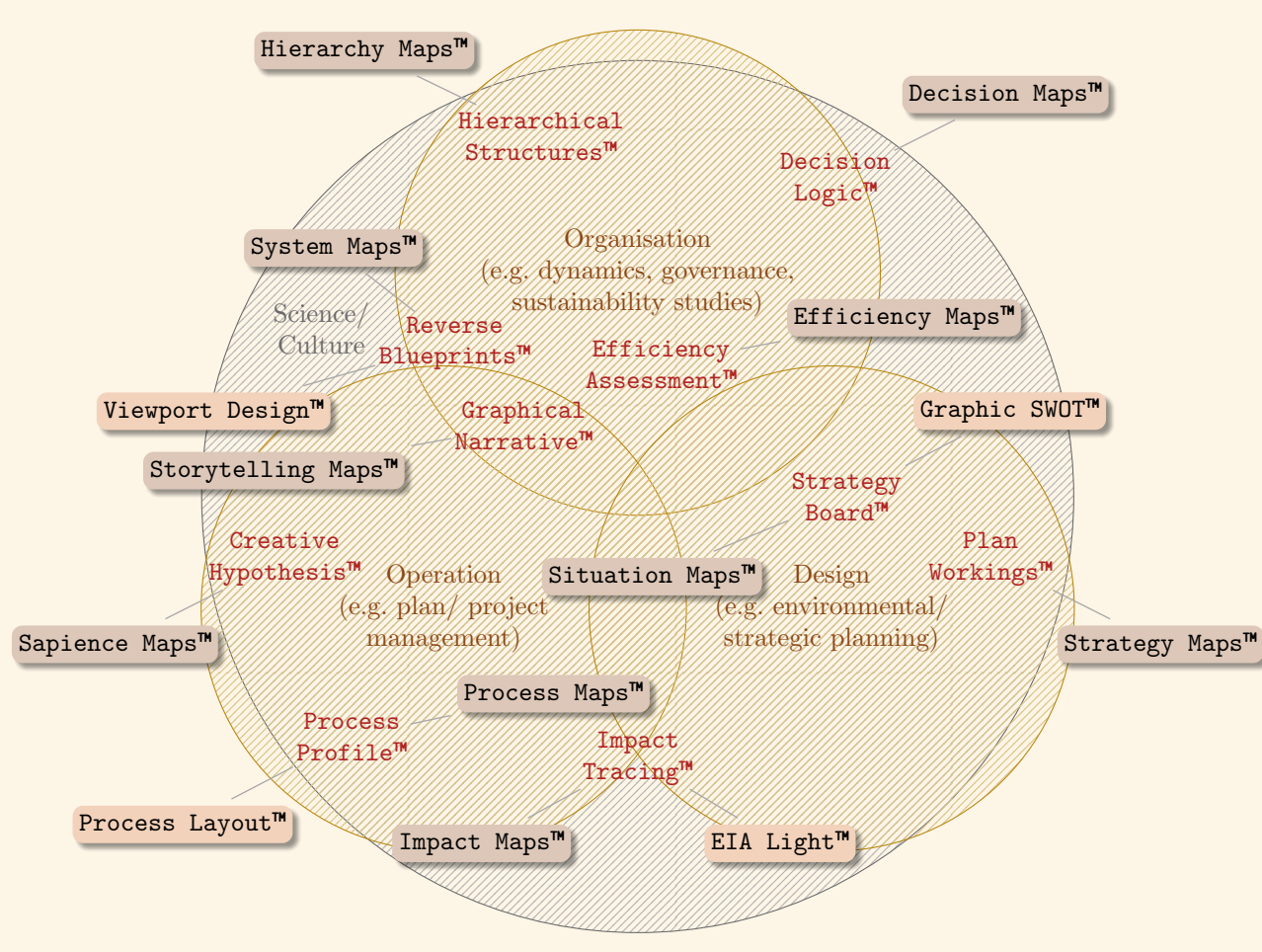
Systems Planning<sup>SM</sup> develops an ‘X-ray’ capacity to create mental models for a number of ‘intangibles’ (Perdicoulis, 2014e). While methods and techniques (Perdicoulis, 2014b,a) address the basic planning procedures, special-interest planning functions are ‘packaged’ into X-ray Packs<sup>TM</sup>.

**TRAINING SESSIONS** *Entry-level* workshops (i.e. X-ray Pack<sup>TM</sup> series) are organised around individual X-ray Packs<sup>TM</sup> (e.g. Hierarchical Structures<sup>TM</sup>, Plan Workings<sup>TM</sup>), while *advanced-level* workshops (i.e. Masterclass<sup>TM</sup> series) combine X-ray Packs<sup>TM</sup> to address planning challenges such as insight/ innovation or growth/ maturity.

**PROFESSIONAL ARTEFACTS** (i.e. Pro Utilities<sup>TM</sup>) are produced and/ or employed by all workshops, and consist of *maps* (e.g. Situation Maps<sup>TM</sup>, Efficiency Maps<sup>TM</sup>) and *procedures* (e.g. Graphic SWOT<sup>TM</sup>, EIA Light<sup>TM</sup>). *Maps* are working structures, while *procedures* improve on mainstream praxis (e.g. impact assessment, KPI cockpits).

*Entry-level workshops employ individual X-ray Packs<sup>TM</sup> for training*

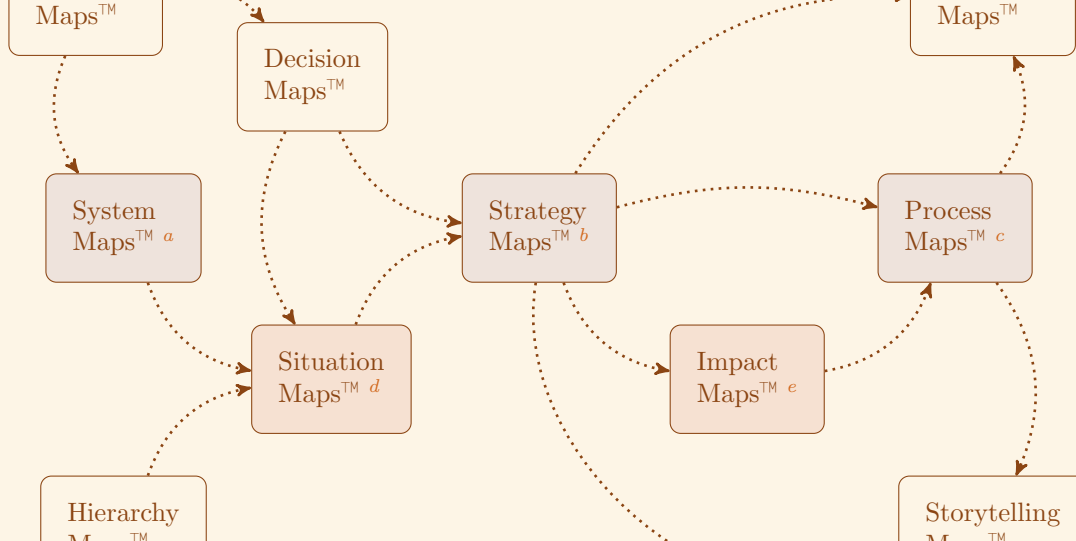
X-RAY PACKS <sup>TM</sup>	REF.	PRO UTILITIES <sup>TM</sup>	METHODS & TECHNIQUES
Reverse Blueprints <sup>TM</sup>	(§1)	System Maps <sup>TM</sup> Viewport Design <sup>TM</sup>	RBP <sub>[T]</sub> , TMU <sub>[T]</sub> QSM <sub>[M]</sub>
Hierarchical Structures <sup>TM</sup>	(§2)	Hierarchy Maps <sup>TM</sup>	HBS <sub>[T]</sub> , RBP <sub>[T]</sub> , CPD <sub>[T]</sub> QSM <sub>[M]</sub>
Decision Logic <sup>TM</sup>	(§3)	Decision Maps <sup>TM</sup>	DMA <sub>[M]</sub> CPD <sub>[T]</sub> , TMU <sub>[T]</sub> , DCD <sub>[T]</sub>
Process Profile <sup>TM</sup>	(§4)	Process Maps <sup>TM</sup> Process Layout <sup>TM</sup>	CPD <sub>[T]</sub> ; EPD <sub>[T]</sub> ; PPD <sub>[T]</sub> ; TCD <sub>[T]</sub> QSM <sub>[M]</sub>
Plan Workings <sup>TM</sup>	(§5)	Strategy Maps <sup>TM</sup>	DCA <sub>[M]</sub> ; ECT <sub>[M]</sub> ; XPD <sub>[M]</sub> DCD <sub>[T]</sub>
Efficiency Assessment <sup>TM</sup>	(§6)	Efficiency Maps <sup>TM</sup>	XPD <sub>[M]</sub> ; QSM <sub>[M]</sub> ; EFI <sub>[M]</sub> RBP <sub>[T]</sub> ; CPD <sub>[T]</sub> ; DCD <sub>[T]</sub>
Strategy Board <sup>TM</sup>	(§7)	Situation Maps <sup>TM</sup> Graphic SWOT <sup>TM</sup>	XPD <sub>[M]</sub> , ECT <sub>[M]</sub> RBP <sub>[T]</sub> ; CPD <sub>[T]</sub> ; DCD <sub>[T]</sub> ; TMU <sub>[T]</sub>
Impact Tracing <sup>TM</sup>	(§8)	Impact Maps <sup>TM</sup> EIA Light <sup>TM</sup>	DCA <sub>[M]</sub> ; QSM <sub>[M]</sub> TMU <sub>[T]</sub> ; DCD <sub>[T]</sub> ; RBP <sub>[T]</sub>
Graphical Narrative <sup>TM</sup>	(§9)	Storytelling Maps <sup>TM</sup>	QSM <sub>[M]</sub> RBP <sub>[T]</sub> ; CPD <sub>[T]</sub> ; DCD <sub>[T]</sub> ; TMU <sub>[T]</sub>
Creative Hypothesis <sup>TM</sup>	(§10)	Sapience Maps <sup>TM</sup>	RBP <sub>[T]</sub> ; CPD <sub>[T]</sub> ; DCD <sub>[T]</sub> QSM <sub>[M]</sub>



*X-ray Packs<sup>TM</sup> in red text; Pro-Utilities<sup>TM</sup> in badges (darker: maps; lighter: procedures); gold disks: professional fields and activities (Perdicoulis, 2014g,h); gray disk: the extended field of human knowledge and culture*

*Masterclasses<sup>TM</sup> combine X-ray Packs<sup>TM</sup> into advanced-level workshops*

MASTERCLASS <sup>TM</sup>	RE:	X-RAY PACKS <sup>TM</sup>
Insight/ Innovation <sup>TM</sup>	situations	Graphical Narrative <sup>TM</sup> (§9); Creative Hypothesis <sup>TM</sup> (§10)
Growth/ Maturity <sup>TM</sup>	systems	Reverse Blueprints <sup>TM</sup> (§1); Creative Hypothesis <sup>TM</sup> (§10)
Efficiency at Work <sup>TM</sup>	processes	Efficiency Assessment <sup>TM</sup> (§6); Process Profile <sup>TM</sup> (§4)
Indicators/ Indices <sup>TM</sup>	systems	Reverse Blueprints <sup>TM</sup> (§1); Strategy Board <sup>TM</sup> (§7)
Impact Mitigation <sup>TM</sup>	systems/ action	Impact Tracing <sup>TM</sup> (§8); Reverse Blueprints <sup>TM</sup> (§1)
Decision Making <sup>TM</sup>	situations/ action	Decision Logic <sup>TM</sup> (§3); Plan Workings <sup>TM</sup> (§5)



*Potential information flow among the Pro Utility<sup>TM</sup> maps (procedure anchors in colour)*

<sup>a</sup> Primordial diagram (Perdicoulis, 2014a); essential for Viewport Design<sup>TM</sup> (Reverse Blueprints<sup>TM</sup> pack)  
<sup>b</sup> Primordial diagram (Perdicoulis, 2014a); essential for the process part of Graphic SWOT<sup>TM</sup> (Strategy Board<sup>TM</sup> pack)  
<sup>c</sup> Primordial diagram (Perdicoulis, 2014a); essential for Process Layout<sup>TM</sup> (Process Profile<sup>TM</sup> pack)  
<sup>d</sup> Essential for the system part of Graphic SWOT<sup>TM</sup> (Strategy Board<sup>TM</sup> pack)  
<sup>e</sup> Essential for EIA Light<sup>TM</sup> (Impact Tracing<sup>TM</sup> pack)

## 1 Reverse Blueprints<sup>TM</sup>

The pack gives a visual form to mental models of ‘how things are’ or ‘how things work’, and thus helps gain understanding about assumptions and knowledge (or lack thereof) regarding the dynamic structure and function of the object of interest — e.g. an un-documented system.

Viewport Design<sup>TM</sup> — creating dynamic constructs (e.g. cockpits, dashboards) for system conduct

## 2 Hierarchical Structures<sup>TM</sup>

The pack gives a visual form to mental models of ‘how entities relate’ in terms of order or hierarchy, and thus helps gain understanding about assumptions and knowledge (or lack thereof) regarding the hierarchical structure of the object of interest — e.g. an un-documented system.

## 3 Decision Logic<sup>TM</sup>

The pack expresses graphically the way we reason to reach our decisions as an ‘information flow protocol’, and thus helps find out any reasoning flaws or un-necessary shortcuts — quite important when responsibility is high, such as in competitive environments or in the public domain.

## 4 Process Profile<sup>TM</sup>

The pack expresses graphically ‘how things are done’ — for instance, in the preparation of plans and processes. Once documented, processes can be checked and optimised for pathways, resource use, and outcomes — important in cases of high responsibility.

Process Layout<sup>TM</sup> — sequential documentation of processes in a diagrammatic form

## 5 Plan Workings<sup>TM</sup>

The pack expresses graphically the content of ‘action proposals’ (e.g. public or private plans, policies, strategies) regarding the relations between concerns, objectives, action, and outcomes, and thus facilitates the preparation and verification of both their structure and content.

## 6 Efficiency Assessment<sup>TM</sup>

The pack juxtaposes internal elements of action proposals or conduct (e.g. plans, policies, strategies) to figure out their effectiveness (Z-Z’), fulfilment of outcome (Y-Z’), and overall efficiency (Z-X-Z’), which facilitates their comprehension and application.

## 7 Strategy Board<sup>TM</sup>

The pack adds concerns and commitments (XPD<sub>[M]</sub>) to the mental model of the system of interest (RBP) from distinct points of view (stakeholders), and thus facilitates the conception of strategy and creation of action proposals (DCD) in a negotiated manner.

Graphic SWOT<sup>TM</sup> — element standing and roadmap analysis in SWOT notation

## 8 Impact Tracing<sup>TM</sup>

The pack expresses graphically how the impacts are likely (or thought) to arise from the proposed action, and thus facilitates the construction, understanding, and verification of the causal argument in environmental impact statements in comparison to the classic text option.

EIA Light<sup>TM</sup> — EIA scoping with Impact Map<sup>TM</sup> storyboards (RBP/ DCD)

## 9 Graphical Narrative<sup>TM</sup>

The pack turns stories or accounts into appropriate diagrams — e.g. situations (RBP); courses of action (CPD); plots (DCD) — and thus facilitates the understanding of dynamic structure, function, causality, *inter alia*, which provides a richer experience with the narrative.

## 10 Creative Hypothesis<sup>TM</sup>

The pack explores the formulation of hypotheses — e.g. potential solutions to problems, explanations to phenomena, answers to questions, or hopes for innovation — and improves decision-making through the understanding to create these options.

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