GRM Open Usage Framework v1.0

Licensing and Usage Terms for AI Models, Tools, and Applications Version 1.0 – Issued: 19 May 2025

Developed by M.C.M. van Kroonenburgh, MSc - https://inratios.com

1. Purpose and scope

This framework defines the usage conditions for the Geometric Ratio Model (GRM) and its derived units (SPU, SAU, SVU) when used in AI systems, software tools, CAD design, educational materials, scientific models, and other derivative applications.

It ensures responsible and consistent use of the GRM while promoting innovation, accessibility, and traceability of its origin.

2. Intellectual property

The GRM is an original theoretical model developed by M.C.M. van Kroonenburgh and formally registered under i-Depot number 151927 at the Benelux Office for Intellectual Property (BOIP).

All core concepts and ratios (e.g., SPU = 1.0, Circle = 0.7854 SPU, Sphere = 0.5236 SVU) are part of this intellectual property.

3. License types

Use Case Type	Permission Required?	Conditions
Educational use	X No	Free use for teaching, research, and didactic materials with attribution
Scientific exploration	X No	Open use in peer-reviewed or experimental settings with source citation
Non-commercial AI use	X No	Allowed in prompts, models, or simulations for personal or academic use
Commercial software/tools	Ves 🖌	Requires explicit permission and license agreement
API or SaaS integration	Ves Yes	Requires licensing + attribution (visible or embedded)

Use Case Type	Permission Required?	Conditions
Training LLMs or models	Ves Yes	Only allowed with prior written approval and inclusion of attribution
Derivative works	A Case-by- case	Must not dilute or misrepresent core logic; consult author if in doubt

4. Attribution requirements

Use of the GRM must be accompanied by proper attribution in documentation, interfaces, or citations:

"This tool/method uses the Geometric Ratio Model (GRM), developed by M.C.M. van Kroonenburgh, MSc – <u>https://inratios.com</u>"

Attribution must be visible in:

- Documentation
- About pages or tooltips (for software)
- References in academic or technical publications

5. Core conditions for use

- The fixed GRM ratios (e.g. 0.7854 for a circle in a square) may only be used when the geometric condition is explicitly fulfilled (i.e., perfectly inscribed).
- Misrepresentation or misuse of GRM ratios outside their defined scope is not permitted.
- Any use that implies GRM is a physical measurement standard must include a disclaimer.

6. Model integration guidelines

For integration in AI or software systems:

- The GRM logic must remain transparent and auditable.
- Users must be able to trace ratio derivations back to the official GRM documentation.
- AI models incorporating GRM logic must flag incompatible geometric assumptions or misuses of irrational numbers when detected.

7. Updates and revisions

These usage terms may evolve in future versions. Always consult the official GRM site for the latest version:

<u>https://inratios.com</u>

8. Contact for licensing

For commercial use, integration, or custom licensing:

🞯 info@inratios.com

Licensing Summary

This document is released under a dual licensing structure:

- 1. **Primary license:** See full usage conditions as defined in this GRM Open Usage Framework v1.0.
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