

GOMA 6.0

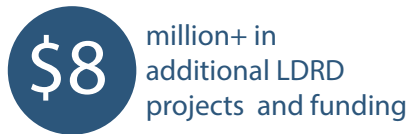


Sandia-developed software reduces manufacturing process-development time for industry partners.

Goma 6.0 is a multiphysics, finite element code developed by Sandia National Laboratories to simulate manufacturing processes and solve free and moving boundary problems. Goma's flexibility makes it ideal for testing and prototyping new algorithms, material models, and solving problems requiring rapid development and quick turnaround times. Over the course of its development, Goma benefited from early use and input from more than 26 industry and university users and partners—creating a more robust software. Sandia's industry partners have utilized Goma to successfully reduce process-development time for manufacturing solutions including flat-panel glass processing at Corning, producing reinforced materials for power lines for 3M, and porous adsorbent media applications at Procter & Gamble. Goma has become a valuable resource for our industry partners by decreasing scope of experiments and facilitating process improvements, unavailable by any other means.

This R&D100 award-winning software was eventually released as open source for broader dissemination and increased impact. Goma is the first software of its kind to be freely available, allowing a broader audience to benefit from reduced process-development time, understanding fundamental processes, and educating the next generation of computational mechanics experts.

6 versions of Goma **20+ years** of development **30+ licenses**



“ The partnership with Sandia and access to their world-class modeling and simulation tools, in particular GOMA 6.0, have been a great resource; helping us tackle multiple technical challenges across our business. ”

Dr. Ken Comer, Sr. Engineer with Procter & Gamble



IMPROVED TESTING FOR MANUFACTURING

VALUABLE TRAINING TOOL FOR UNIVERSITIES

