

Urgent Call for a Parliamentary Question: Save Billions in Taxpayer Funds at CERN by Requesting a Public Scientific Comparison

Tuesday 3 June, 2025

A Meeting to Compare CERN's 650 kW FPGA System (66 Operations) with Crosetto's 6 kW 3D-Flow (8,000+ Operations) is all that's needed to Prevent Massive Waste and Save Lives

DALLAS, TX — June 2, 2025. The Crosetto Foundation for the Reduction of Cancer Deaths urgently calls on Members of the European Parliament (MEPs) to exercise their oversight authority and protect taxpayer interests by submitting a Parliamentary Question that supports **a clear, immediate solution** to end over **30 years of misallocated public funding** at CERN and **prevent billions more in future waste**.

Action Requested:

Request a public scientific **meeting between the CERN designers** of the current **650 kW FPGA-Based Level-1 Trigger system** (limited to 66 operations) **and scientist Dario Crosetto, inventor of a proven 3D-Flow architecture**, which consumes only **6 kW** and performs over 8,000 programmable operations, at a fraction of the cost.

This public and transparent meeting could correct decades of inefficiencies in research spending, restore public trust in science funding, and accelerate the adoption of technologies that **save lives and reduce costs**.

Inconsistencies at CERN Require Urgent Parliamentary Oversight

As stewards of public resources, MEPs hold a crucial responsibility to ensure transparency and accountability in taxpayer-funded research. Significant discrepancies at CERN, particularly concerning the choice of core architectural systems for high-energy physics experiments, raise serious questions that demand your immediate attention and intervention.

Italian-American scientist Dario Crosetto, invented the 3D-Flow architecture, recognized as a breakthrough in 1993 by an international scientific panel at FERMLAB for its unparalleled efficiency in accurately recognizing objects (particles) traveling up to the speed of light. His invention laid the groundwork for the 3D-CBS (3D-Complete Body Screening), an advanced PET/CT technology that enables early detection of many diseases, including cancer, with life-saving potential and reduced healthcare costs. This earned him the Leonardo da Vinci Prize in 2011 for the most efficient solution in particle detection for early cancer diagnosis.

The superiority and advantages of these **technology-independent innovations remain unchallenged to this day**. In 2024, Crosetto's **six scientific papers** were accepted by the **prestigious IEEE-NSS-MIC-RTSD conference**, and he was granted two hours to present 102 slides. This was **followed by an 82-page scientific article and two concise summaries[4]**, all of which remain unrefuted by any prestigious scientific body globally.

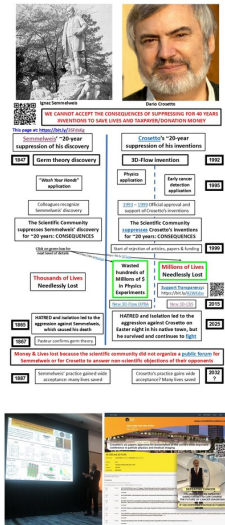
Crosetto's inventions provide powerful cost-efficient tools to detect new particles and for doctors to detect tumors at an early, curable stage.

Leading Scientific Bodies Remain Silent

Despite overwhelming **and** unchallenged scientific evidence, for over three decades **CERN** opted for less effective and **more expensive Field Programmable Gate Array (FPGA)-based architectures**. This decision has not only resulted in multiple costly implementations **that have failed to meet performance** needs, but has also delayed the immense benefits of **3D-Flow in physics, medicine, and defense**.

Notably, no scientific institution—including the highly esteemed Pontifical Academy of Sciences, which counts 86 Nobel laureates among its past and present members (including former Director of the National Institutes of Health **and CERN Director General Prof. Fabiola Gianotti**), has

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been able to technically refute Crosetto's findings. His 63-page report (<https://bit.ly/3qii6Dv>), submitted two years ago and included in the agenda of the Academy's September 20, 2023 Council meeting, still awaits a technical rebuttal.

If these distinguished scientists, who lead the most advanced institutions in particle detection and oncology, have been unable to identify a technical expert capable of refuting Crosetto's claims, then accountability demands action. To avoid bearing the moral and historical responsibility of hindering a project with enormous human and economic potential, the Pontifical Academy should encourage its Council member, Prof. Gianotti, to organize a public scientific comparison between CERN's current 650 kW FPGA-Based architecture (limited to 66 operations) and Crosetto's 6 kW 3D-Flow architecture (exceeding 8,000 operations). CERN must assume responsibility for arranging this vital, overdue evaluation.

Immediate Action: Submit the Parliamentary Question

The stark inconsistencies in performance, power consumption, and cost, represent a severe misallocation of taxpayer funds. Members of the European Parliament have a duty to intervene. We urge the immediate submission of the following 'Parliamentary Question for Written Answer' to protect citizens from further waste and to open the doors to truly groundbreaking innovations. This critical step will compel the European Commission to investigate and potentially suspend funding CERN and universities for similar, less efficient FPGA-based projects, redirecting resources toward solutions that genuinely advance science and improve societal well-being.

Text of the Parliamentary Question — Subject: 3D-Flow and 3D-CBS inventions

Italian-American scientist Dario Crosetto's 3D-Flow invention—recognized in 1993 as a breakthrough by a major scientific review at FERMILAB [1] for accurately recognizing objects traveling at the speed of light—received initial funding and a subsequent \$1 million grant for a successful feasibility study, detailed in a 1999 peer-reviewed NIM publication [2].

The 3D-Flow architecture has broad applications: improving efficiency in billion-euro CERN experiments, enabling the 3D-CBS (3D Complete Body Screening)—a PET/CT device for early detection of many diseases, including cancer, at a highly curable stage—and creating real-time defense shields against weapon attacks.

Despite its proven capability, for over 30 years CERN has instead adopted Field Programmable Gate Array (FPGA)-based architectures which, after multiple costly implementations, have failed to meet performance needs. This choice has significantly delayed the 3D-Flow's lifesaving and cost-saving benefits in physics, medicine, and defense.

A public scientific meeting is requested between CERN designers of the ongoing Level-1 Trigger project, which—according to CERN's own technical report, Table 3.2 of [3], consumes 650 kW for only 66 operations—and Crosetto's 6 kW 3D-Flow system, capable of over 8,000 operations (Table I, [4]), at a fraction of the cost, while meeting CERN experiment requirements through 2042.

References:

- [1] FERMILAB scientific review committee recognition of the 3D-Flow invention, 1993 (<https://bit.ly/42zhwRb>).
- [2] Crosetto DB. Nuclear Instruments and Methods in Physics Research A, Vol. 436, pp.341-385, 1999. (<https://bit.ly/3RjhA29>).
- [3] CERN-CMS-TDR-022: (Page 46 of 378 pages, dated 17 June 2021, (<https://cds.cern.ch/record/2759072/files/CMS-TDR-022.pdf>).
- [4] Crosetto DB. Table I: 3D-Flow-Based Level-1 Trigger system performance, power consumption requirements and costs 82-page, 2-page comparison, 2-page scalable universal processing system (<https://bit.ly/4jzxaCu>).

Why This Matters to Every European Citizen

This is not just about high-energy physics. It's about:

- Protecting billions in taxpayer funds

- Ensuring fairness and openness in scientific evaluations
- Accelerating the deployment of technologies that reduce cancer deaths
- Defending the right of citizens to demand accountability

The current FPGA-Based **Level-1 Trigger system**—already under development for the **CERN's High-Luminosity LHC upgrade**, cannot meet performance requirements through 2036. Without intervention, public money will continue to fund systems that consume more, do less, and slow scientific progress.

Take Action Now: Support Transparency and Innovation: Make a Tax-Deductible Donation

The Crosetto Foundation for the Reduction of Cancer Deaths, a U.S. 501(c)(3) nonprofit, is committed to saving lives through innovation and integrity in science. The Crosetto Foundation has been awarded the **Gold Seal for Transparency for eight consecutive years** from GuideStar: <https://www.guidestar.org/profile/03-0544575>.

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