Keynote Agenda with Integration of COMPASS Education Vision

Dr. Daithí Ó Murchú. Drumcondra Education Centre, Ireland

Thursday August 1st. 2024

Title: *Education… Astronomy Education … AstronoMine What? A Changing Landscape in Understanding Astronomy Education in K12 Schools*

Theme: Reaching for the Stars – Business Development and Disruptive Technologies

This session highlights how the COMPASS Education team's vision of providing clarity and certainty in school leadership aligns with the innovative goals of the *AstronoMine* project. By integrating Astronomy Education into a unified school management system, COMPASS demonstrates how its platform can enhance learning, wellbeing, and operational efficiency while advancing STEM education in Europe.

Session Breakdown (3 hours)

1. Opening Remarks & Vision *(15 minutes)*

- **Presenter:** Dr. Daithí Ó Murchú, Drumcondra Education Centre
- **Topics Covered:**
  - Introduction to the *Reaching for the Stars* Initiative and the *AstronoMine* ERASMUS project
  - Connecting COMPASS Education's motto—"Guide your school with clarity and certainty"—to Astronomy Education and school leadership innovation
  - Enabling schools to streamline the adoption of disruptive educational technologies

2. Keynote Address *(30 minutes)*

- **Title:** *"Astronomy Education in K12: Leadership, Innovation, and Technology - A Changing Landscape, or is it really?"*
- **Speaker:** Dr. Daithí Ó Murchú
- **Focus Areas:**
  - The transformational potential of Astronomy Education in preparing future-ready students
  - Leveraging COMPASS Education's single-platform solution to support the integration of Astronomy-focused curricula and ERASMUS projects
  - Empowering school leaders to make informed decisions across learning, assessment, and wellbeing while scaling innovative STEM programs
  - Case study: A holistic approach to implementing Astronomy Education using unified school systems

3. Panel Discussion *(45 minutes)*

- **Topic:** *"Navigating the Stars: School Leadership, Astronomy Education, and Technology"*
- **Moderator:** Dr. Daithí Ó Murchú
- **Panelists:**
  - School leaders using COMPASS Education systems
  - Experts involved in the *AstronoMine* ERASMUS project
  - Technology developers focusing on unified educational platforms
- **Themes:**
  - How integrated systems like COMPASS enable schools to adopt cutting-edge educational initiatives (e.g., Astronomy Education) with ease
  - Addressing leadership challenges in STEAM integration and aligning with global trends
  - Wellbeing as a core pillar: Ensuring student and teacher engagement through modern tools and technologies

4. Interactive Workshop *(45 minutes)*

- **Activity Title:** *"Harnessing COMPASS to Navigate AstronoMine: Unifying Technology and Education"*
- **Facilitator:** COMPASS Education Team & *AstronoMine* representatives
- **Workshop Objectives:**
  - Demonstrating how COMPASS can streamline Astronomy-related learning initiatives
  - Hands-on exploration of integrating Astronomy apps, lesson plans, and assessments into a centralised school system
  - Group activity: Designing a roadmap for implementing Astronomy Education with clarity and operational efficiency in schools

5. Closing Reflections & Action Plan *(30 minutes)*

- **Speakers:** Dr. Daithí Ó Murchú, COMPASS Leadership, and *AstronoMine* Stakeholders
- **Focus Areas:**
  - Key takeaways: The intersection of school leadership, innovative education, and technology
  - Practical steps for schools: Incorporating COMPASS and *AstronoMine* resources into existing systems
  - A vision for the future: Building a collaborative network of schools leading the way in Astronomy Education
  - Open floor: Q&A and participant feedback

Integration of COMPASS Vision

1. Enabling Clarity in Astronomy Education:
COMPASS provides a streamlined way for schools to integrate complex educational initiatives, such as Astronomy Education. With tools for learning management, assessment, and wellbeing, school leaders can gain a comprehensive overview of how *AstronoMine* fits into their school's broader educational goals.

2. Centralising Resources:
Through a unified platform, COMPASS helps schools coordinate resources, from Astronomy lesson plans to wellbeing tracking for students and teachers engaged in STEM projects. This eliminates reliance on disconnected systems and supports consistent, data-driven decision-making.

3. Supporting Leadership in Change Management:
Astronomy Education, as part of disruptive STEM innovation, requires leadership that can navigate challenges and opportunities. COMPASS equips school leaders with tools to oversee new programs like *AstronoMine*, ensuring clarity in processes and certainty in achieving educational outcomes.

4. Enhancing Business Performance through STEM Initiatives:
With Astronomy Education contributing to the future workforce in space and STEM industries, schools adopting *AstronoMine* through COMPASS can position themselves as leaders in cutting-edge education, attracting partnerships and funding while improving business performance.