

The Role K12 and Teacher Education Can Play Fostering Digital Equity

Thursday evening panel

National summit

April 27, 2023



Panel Agenda

Welcome Moderator, [Kurt Kiefer](#), consultant, Council of Chief State School Officers and assistant state superintendent/CIO (retired)
WI Department of Education

Panelists

[Ji Soo Song](#), digital equity advisor, US Department of Education

[Dr. Mary Ford](#), director of inclusive career pathways, NCDE

[Dr. Rebecca West Burns](#), past president, National Association for Professional Development
Schools, and director of clinical practice, University of North Florida

[Lawrence Franchini](#), vice-president, sales and operations, BrainCo

[Richard Hasenyager](#), vice president for curriculum solutions, Rosen Publishing Group

[Dr. Sonny Magana](#), ceo, Magana Education

Q & A

Aims of the panel discussion

- **Explore why and how K12 education and educator preparation should have key roles in States' four-year plans for digital equity & economic inclusion**
- Consider concrete strategies by which
 - States might outreach to encourage educators & teacher educators to help develop their state plan
 - K12 and teacher educators can best foster digital inclusion
 - By which digital equity allies can remove digital divide barriers to educational opportunities, engagement and results

Ji Soo Song

digital equity advisor

U.S. Department of Education



Advancing Digital Equity for All:

Community-Based Recommendations for Developing Effective Digital Equity Plans to Close the Digital Divide and Enable Technology-Empowered Learning

September 2022

U.S. DEPARTMENT OF EDUCATION
<http://tech.ed.gov>

Advancing Digital Equity for All

Community-Based
Recommendations
for Developing
Effective Digital
Equity Plans to

Close the Digital
Divide and Enable
Technology-
Empowered
Learning

tech.ed.gov/DEER



**BUILDING STRONG
PARTNERSHIPS TO
ADVANCE DIGITAL
EQUITY FOR LEARNERS**



blogs.ed.gov

Engaging Education in Digital

Equity Plans



Office of Ed Tech

Feb 14 · 6 min read · Listen



Capitalizing on the Moment: States Collaborate with Education Leaders on Digital Equity Plans



Office of Ed Tech

Mar 27 · 2 min read · Listen



Capitalizing on the Moment: How Local Education Leaders Can Contribute to State Digital Equity Planning Efforts



medium.com/@OfficeofEdTech

Dr. Mary Ford

director, inclusive career pathways, NCDE

- Why does NCDE regard K12 apprenticeship initiative as integral to:
 - Diversifying the state's K12 workforce
 - Improving learning opportunities, engagement and results for diverse K12 learners
 - Provide a solid, enduring foundation for improving educational outcomes, college & career readiness, and economic opportunity for all learners
- How does tapping USDOL and “braided funding” contribute to diversifying educator pipeline
- Can K12 apprenticeship program integrate digital, media, financial and other essential literacies into educator preparation?
- With whom should State digital equity planners work to support existing or create new educator apprenticeship program?

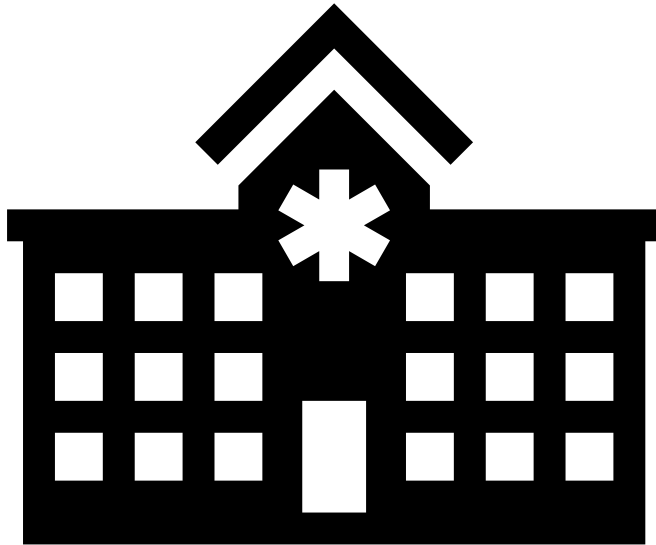
Dr. Rebecca West Burns

past president
National Association for Professional Development Schools

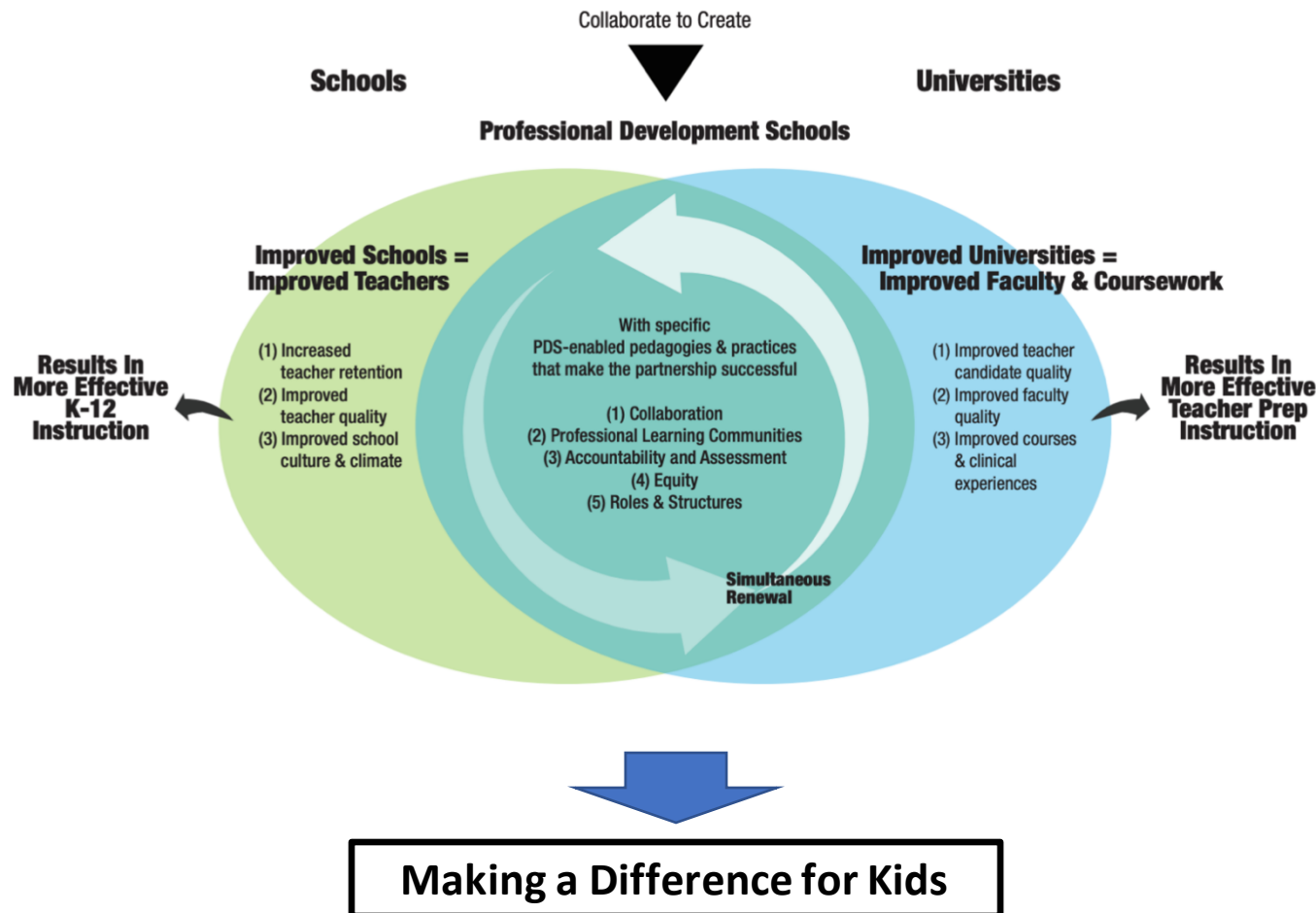
Bill Herrold endowed professor and
director, clinical practice & educational partnerships
University of North Florida

What are Professional Development School partnerships?

The Teaching Hospitals for the Education Profession



Intentional School-University Partnerships aimed at Making a Difference for Kids



National Association for
Professional Development Schools



<https://napds.org/nine-essentials/>

What does the research say about PDS partnerships?

Professional Development Schools have been recognized as **“exemplars for practice”** (AACTE, 2018).

They **forge stronger links** between schools and university to better prepare teachers by providing **earlier and longer clinical experiences** (Burton & Greher, 2007; Castle & Reily, 2011).



What does the research say about PDS partnerships?

Teachers who teach in Professional Development School partnerships are **more engaged** and **energized**.

They have **more confidence** and **greater job satisfaction** because they are **less isolated** and have **more access to professional learning** (Abdul-Haqq, 1998; Green & colleagues, 2020; Handscomb, et. al, 2014; Nolan, et. al, 2011; Yendol-Hoppey & Franco, 2014)

What does the research say about PDS partnerships?

Teachers who are prepared in Professional Development School partnerships are more reflective and more knowledgeable. They have stronger technology abilities, better classroom management, stronger instructional planning, and are better at assessing student learning. They are more motivating and are more likely to be student focused. Because they feel better prepared to teach, they have more confidence and have higher retention rates (Abdul-Haqq, 1998; Castle & Reilly, 2011; Hammerness & Darling-Hammond, 2005; Snow, et. al, 2016).

How can PDS partnerships in LMI Communities Improve Educational Opportunities & Outcomes?

The Story of Hope Elementary



PDS partnerships in LMI Communities: Improving Educational Opportunities & Outcomes



Improved school
culture and climate

Differentiated
professional learning
for teachers

Advanced credentials
for teachers

Increased teacher
leadership capacity

Increased teacher
retention – still no
vacancies 10 years later

Improved student
achievement as
measured by
standardized test scores
and school grade

Final Thoughts

PDS partnerships can significantly improve educational opportunities and outcomes for students.

Incorporating PDS partnerships (and comparably robust partnerships) into state digital equity plans can foster digital equity and inclusion – both now and for years to come

Lawrence Franchini

vp, sales and operations, BrainCo

- Role of stress for students *and* educators in how well students learn
- Impact of stressors in learning climate, learning outcomes, and educator recruitment & retention
- What neurofeedback science tells us about potential to significantly reduce stress & enhance mindfulness
- BrainCo tools and resources

What is FocusCalm?



FocusCalm is a complete performance platform consisting of an EEG neurofeedback headband and app built out with content to help individuals learn how to control their mindset in just a few minutes each day.

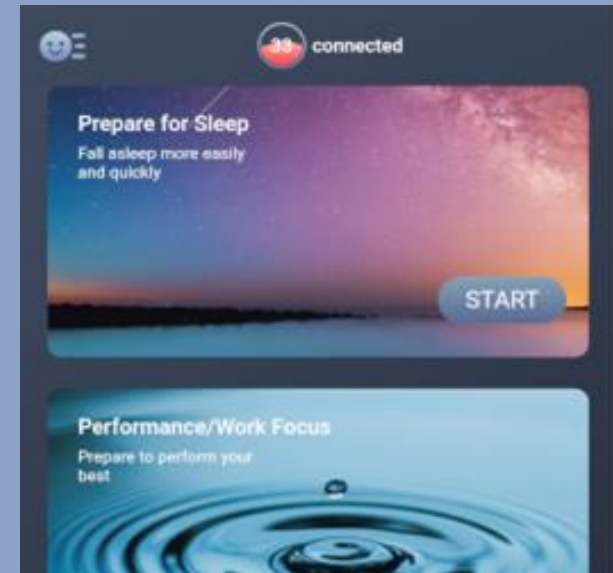
Aspects of FocusCalm

The Headband

A bluetooth EEG device with a single sensor at FPz that tracks real time brain activity in the prefrontal cortex.



The App



Android/iOS compatible platform with meditations and breathing exercises curated by experts, calm and focus games.

The Scoring of FocusCalm



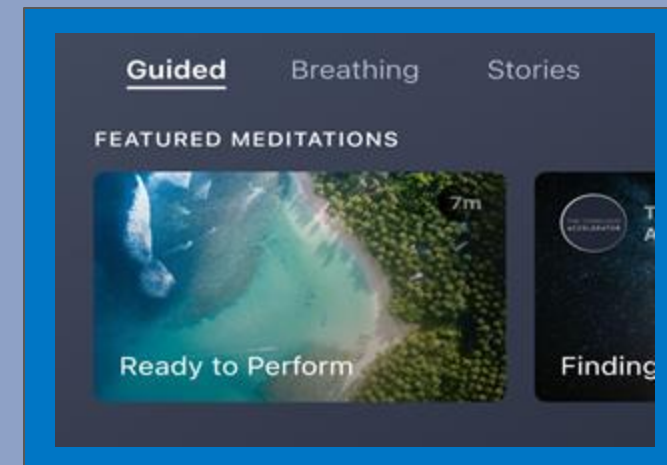
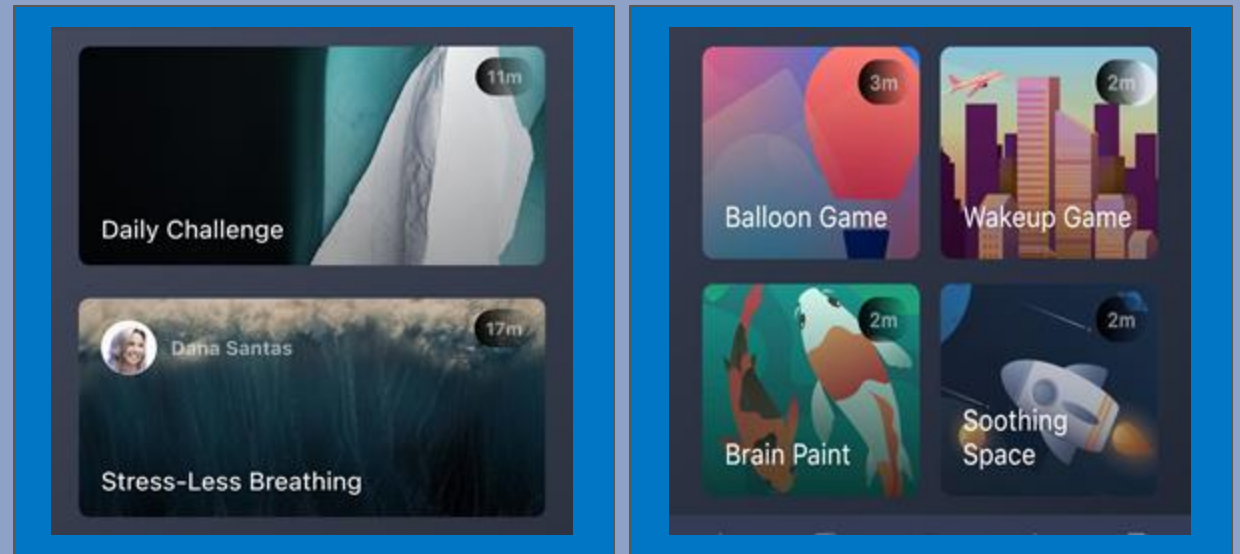
FocusCalm uses a scale of 0-100 to measure the activity in the brain. A lower score means the brain is active and stressed. A high score means the brain is calm and relaxed. Games and activities in the app help users reach the higher scores.

FocusCalm's 3 Step Process

Learn - Discover new ways to calm your mind with guided meditations, games and expert content

Practice - As you practice controlling your mindset, your brain changes the way it responds to stress & anxiety

Challenge - Learn to stay calm under pressure by using FocusCalm a few minutes a day for 3 weeks



Educator Workplace Wellness Study Results

**21% decrease in work
related burnout**

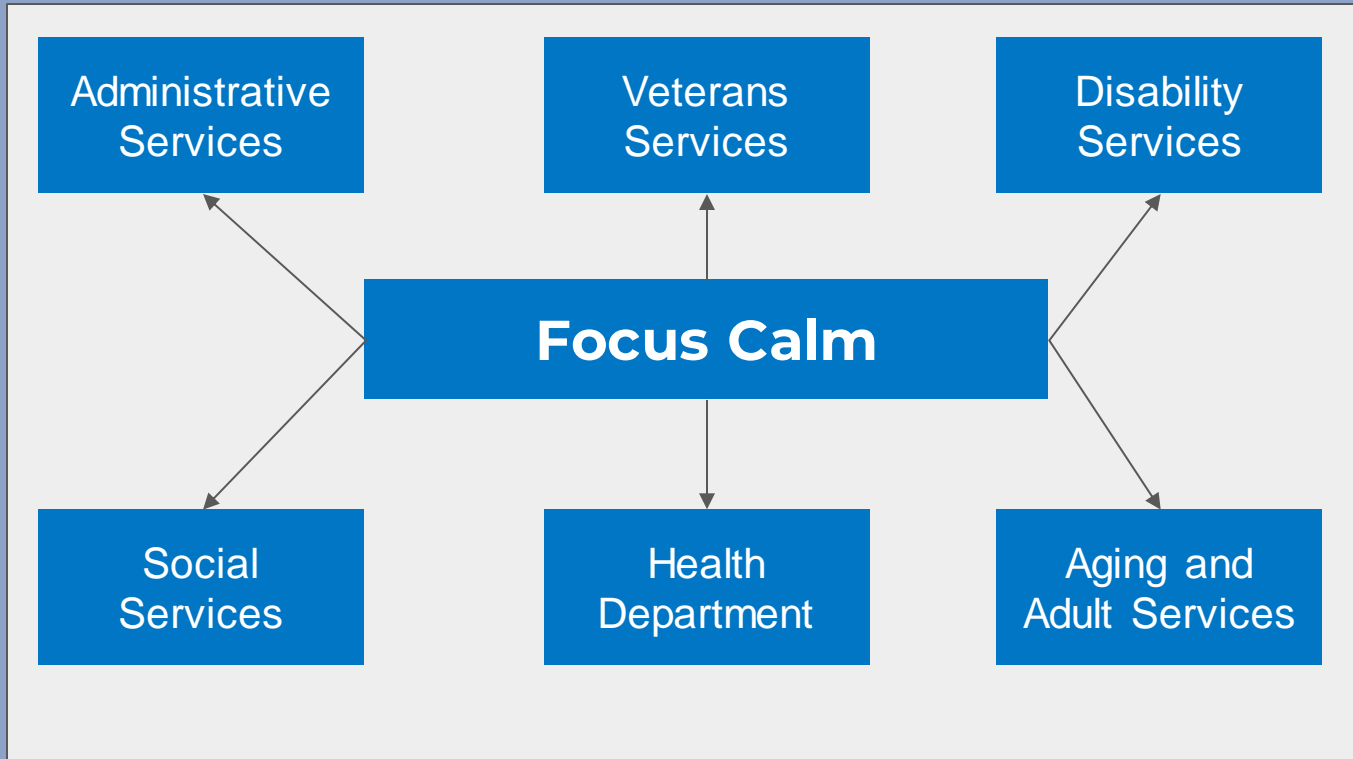
13% decrease in anxiety

**20% decrease in personal
burnout**

**18% increase in well-
being**

**25% increase in cognitive
specific imagery**

Workplace Wellness Solution



FocusCalm can be used and applied in all Departments and Services in a county.

Can apply to:

- Reduce anxiety and stress for Fire, Police, EMS, and others
- Help employees utilize mindfulness to reduce burnout and improve performance

Police/Fire/EMS Use of FocusCalm

Training Academy

- Use with recruits for Performance Management and Skill improvement
- Stress and recovery tool

Incident Response

- Down regulation between stressful incidents
- Stress management and Anxiety Reduction

Administration / Station

- Use to combat stress during the day
- Reduce burnout with operators

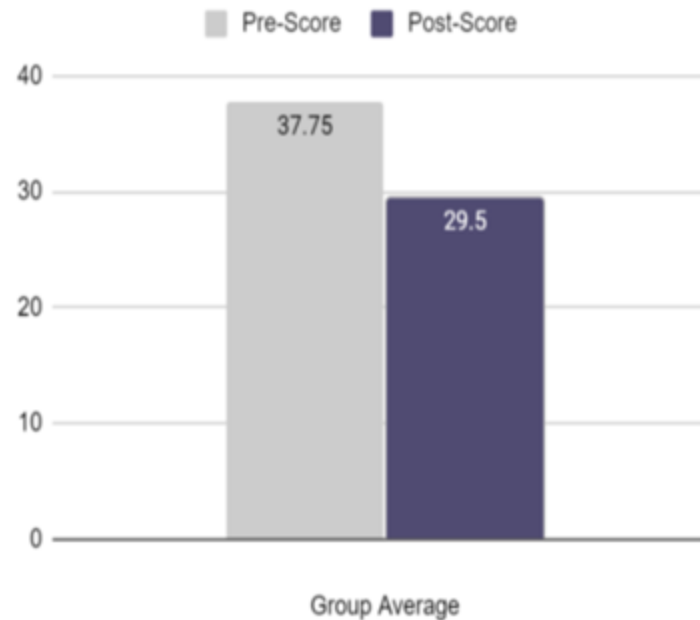
At Home

- Use at home to decompress
- Better work-life balance

This is a complete solution to help reduce stress, anxiety and burnout and improve performance.

Nurses/HealthCare FocusCalm

With consistent FocusCalm usage, we can see impressive trends for improving burnout, wellbeing, and anxiety. We can even see these changes manifesting within the EEG patterns themselves. FocusCalm shows promising results to be an extremely beneficial tool for our burnt-out healthcare professionals.

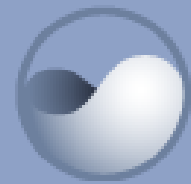


Emotional Exhaustion
22% decrease

Depersonalization
9% decrease

WHO Wellbeing
29% increase

Trait Anxiety
14% decrease



FocusCalm

Website: <https://focuscalm.com>

Instagram: @focus_calm

Twitter: @focuscalm

Please reach out for additional information

lawrence.franchini@brainco.tech

Richard Hasenyager

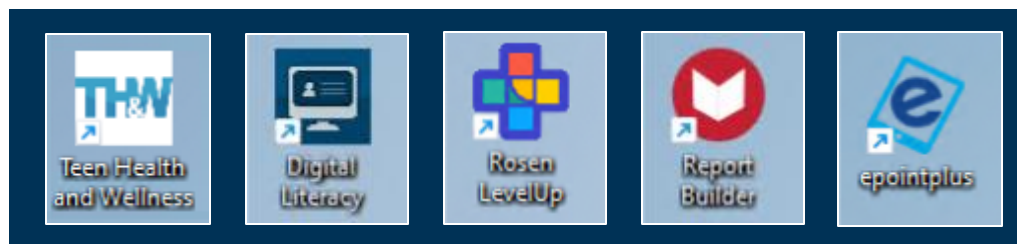
vice president, curriculum solutions, Rosen Publishing Group



Close the Digital Divide with Rosen's Trusted K–12 Content

NCDE presents Rosen's curated collections of over 400 titles, 3 databases, and their award-winning foundational literacy platform for K-12 low- and moderate-income learners. Purchase with confidence from NCDE! **Four years of unlimited access for \$400.00 per student.** To preview these resources go to: digitalequity.us/rosendigitalresiliency.

Email queries or Purchase Orders directly to Dr. Robert McLaughlin at rmclaughlin@digitalequity.us



Foster Early Literacy, Support English Language Learners, Promote Digital Resiliency

R THE ROSEN PUBLISHING GROUP

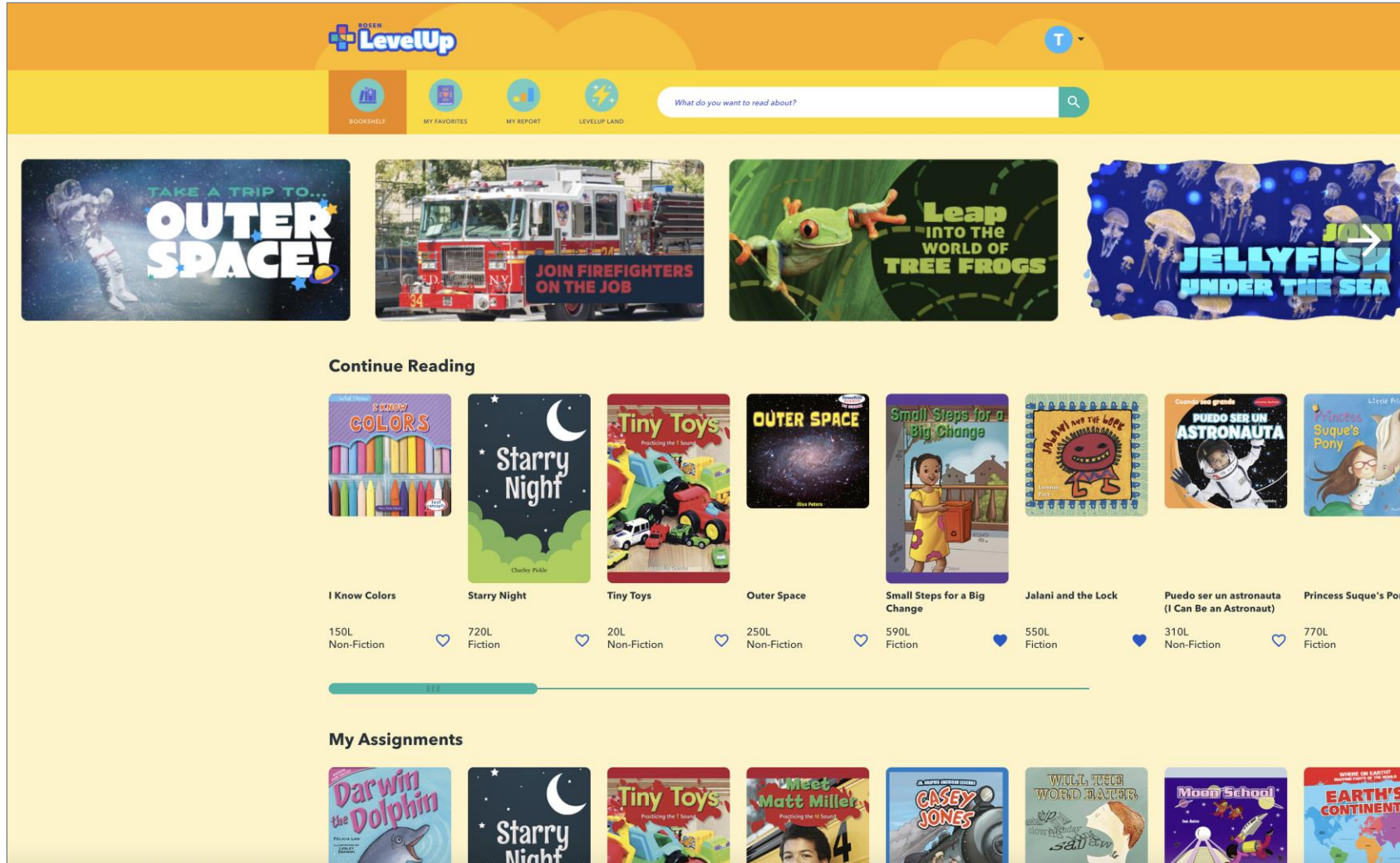


The Rosen Publishing Group has been providing information to schools and libraries since 1950. Whether our titles are accessed as print or digital books, in databases, or in classroom collections, we at Rosen pledge to offer the most clear, concise, engaging resources possible to make learning happen.





A Customized Digital Library for Every Student PreK–3 Foundational Literacy



LevelUp Reader is a robust adaptive reading platform that brings educators and students to one engaging resource to foster students' literacy growth. Supporting small group and whole class instruction as well as individualized practice, **LevelUp Reader** provides a personalized experience for every student!

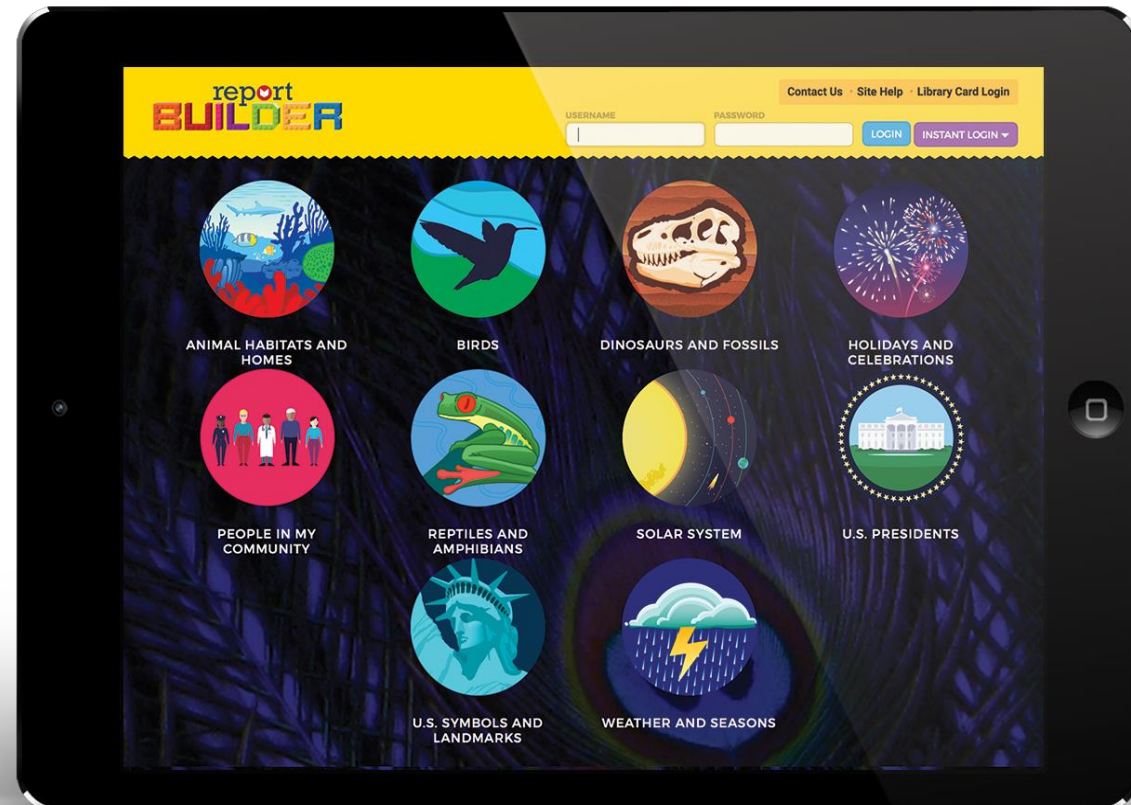
[Rosen LevelUp - Student Video on Vimeo](#)

Resource Features:

- Over 650 age-appropriate articles
- 150–350 captivating images per module
- Downloadable, copyright-cleared images in multiple sizes for use on posters, digital projects, and more
- Smart keyword search helps emerging researchers find exactly what they're looking for
- Read-along text highlighting and article citations support emerging researchers
- Visual learners can explore Report Builder using its intuitive browse feature

Report Builder's interactive question-and-answer approach helps emerging researchers find the information they need to write reports. Curriculum-based topics are concise and supported by eye-catching visuals.

<https://garethreportbuilder.com/login?username=ncdeC&password=ncdeC>



Teen Health & Wellness

real life · real answers

Meet Teen Social and Emotional Needs

The screenshot shows the homepage of the Teen Health & Wellness website. At the top, the logo reads "Teen Health & Wellness" with the tagline "real life · real answers" below it. To the right of the logo are links for "Hotlines", "Calm Room", "Mobile Apps", "Glossary", "Site Help", and "Logout". Below the logo is a navigation bar with a "HOME" button and a search bar. On the left side, there is a sidebar menu with categories: "Body Basics", "Developmental Disabilities and Disorders", "Diseases, Infections, and Conditions", "Diversity", "Drugs and Alcohol", "Eating Disorders", "Family Life", "Friendship and Dating", "Green Living", "Grief and Loss", "Mind, Mood, and Emotions", "Nutrition, Fitness, and Appearance", "Safety", "Sexuality and Sexual Health", and "Skills for School, Work, and Life". Below the sidebar menu are two buttons: "HOTLINES Get help now." and "Visit the Calm Room". The main content area features a row of five profile pictures of diverse teenagers. Below the pictures, there are three main sections: 1. "Visit the Calm Room" with a leaf icon and text: "Videos, sounds, and resources to help you relax and refocus." 2. "Tell Your Story" with a quote: "Challenges make our life more exciting." and a paragraph about overcoming challenges. 3. "Get Informed" with a video thumbnail showing hands and the text: "YOU CAN HELP BEFORE IT'S TOO LATE". Below the video are links to "Find out more about depression.", "See more videos.", and "Submit your own video." 4. "Cast Your Vote" with a poll question: "Have you been bullied by a sibling?" and options "Yes" and "No". 5. "In The News" with a headline: "Study Says Teen Brains Aged Faster During the First Year of the Pandemic" and a paragraph about a study published in the journal Biological Psychiatry.

Teen Health & Wellness
real life · real answers

ROSEN digital»

HOME

Browse by: Subject A-Z

Body Basics

Developmental Disabilities and Disorders

Diseases, Infections, and Conditions

Diversity

Drugs and Alcohol

Eating Disorders

Family Life

Friendship and Dating

Green Living

Grief and Loss

Mind, Mood, and Emotions

Nutrition, Fitness, and Appearance

Safety

Sexuality and Sexual Health

Skills for School, Work, and Life

HOTLINES
Get help now.

Visit the Calm Room

Visit the Calm Room
Videos, sounds, and resources to help you relax and refocus.

Tell Your Story

"Challenges make our life more exciting."

If you fail, take it as a lesson, and keep moving on. Struggle through it and believe you can make it. Do challenging things that you want to try. Don't be afraid of failure or hardship.

Read Phuong's story.

Share your own story.

Read other stories.

Get Informed

YOU CAN HELP BEFORE IT'S TOO LATE

Find out more about depression.

See more videos.

Submit your own video.

Cast Your Vote

Have you been bullied by a sibling?

☐ Yes

☐ No

VOTE

Learn more about dealing with bullies at home.

See previous polls and results.

In The News

Study Says Teen Brains Aged Faster During the First Year of the Pandemic

A new study published in the journal *Biological Psychiatry: Global Open Science* says the brains of U.S. teens physically changed during the COVID-19 pandemic and show signs of aging faster than normal. Researchers from Stanford University compared MRI scans of 163 teens, with half of the scans taken before the pandemic and the other half at the end of 2020. The scans taken during the pandemic showed the teens' brains had grown in the areas that can help manage fear and stress and control access to memories, and thinning in

- Students with mental health conditions are more than twice as likely to drop out of school
- Correlated to CASEL (Collaborative for Academic, Social, and Emotional Learning) Standards
- Foster Relationship Skills with articles on male and female friendships, dating, cross-cultural relationships, and family life
- Develop Responsible Decision-Making with helpful tips and strategies
- Nurture Growth Mindset by encouraging leadership, self-esteem, optimism, and confidence

<https://teenhealthandwellness.com/login?username=ncdeC&password=ncdeC>



Visit the Calm Room

Videos, sounds, and resources to help you relax and refocus.

Digital Literacy

Help your 21st-Century Learners become savvy Digital Citizens!

Explore topics with visual browse.

Key content draws users into the resource.

Appealing, friendly interface with prominent search tool

Dynamic, high-interest video brings content to life and supports visual learners.

Interactive activities provide tools for real-world success.

Interactive quizzes encourage users to interact with content.

The screenshot shows the Digital Literacy website interface. At the top, there's a navigation bar with 'Site Help', 'Logout', and 'ROSEN digital'. Below this is a search bar. The main content area is divided into several sections. On the left, there's a sidebar with 'Browse Subject' and 'Browse A-Z' tabs. Below these are various topic buttons: 'Cyberbullying and Safety', 'Communication Basics', 'Social Networking', 'Privacy and Digital Ethics', 'Search and Research Skills', 'Tools for the Digital Age', 'Careers and Entrepreneurship', 'Internet Biographies', 'Gaming', 'Interactive Activities', and 'Resources for Teachers & Librarians'. The main content area features a 'Take a Closer Look' section with a video player showing a map and a 'Location! Location! Location!' article. Below this is a 'Making Sense of It' section with an article titled 'Being a Network Engineer'. At the bottom, there's a 'Brain Teasers' section with a quiz question about a computer that has been hacked and sends spam automatically. A 'Create a Podcast' button is also visible. Callouts point to various features: 'Explore topics with visual browse.' points to the sidebar; 'Key content draws users into the resource.' points to the 'Tools for the Digital Age' button; 'Appealing, friendly interface with prominent search tool' points to the search bar; 'Dynamic, high-interest video brings content to life and supports visual learners.' points to the video player; 'Interactive activities provide tools for real-world success.' points to the 'Interactive Activities' button; and 'Interactive quizzes encourage users to interact with content.' points to the 'Brain Teasers' section.

Features include:

- Articles written for a Grade 7–12 audience
- Instant translation into over 100+ languages
- Text-to-speech supports struggling readers and ELLs
- Interactive activities guide students to safely use real-world websites and software to create unique user-generated content
- Quizzes and polls invite user interaction

<https://digitalliteracy.rosendigital.com/login?username=ncdeC&password=ncdeC>

Two 200 eBook Collections • Personal Digital Resiliency for Grades K–6 and 7–12

Two 200 eBook Collections covering topics such as:

- Cyber Safety
- Social Media Networks, Addiction, and Safe Use
- Data Privacy
- Media Literacy
- Device Addiction

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https://www.epointplus.com/embed//?login=pdr_712&password=pdr_712

Dr. Anthony J. “Sonny” Magana III



CEO, Magana Education

1:1 Learning Pioneer

Best-Selling Author

Oxford Research Scholar

Marzano Research Associate

Milken Educator

Director, Mukilteo CyberSchool (1995)

@sonnymagana



“Education systems won’t develop future ready learners with pedagogies, curricula, and designs of the past.” (Magana, 2022)

The 5 Critical Commitments for Modern Schooling

1. Provide universal and equitable access to digital production devices, broadband connectivity, and cyber security.



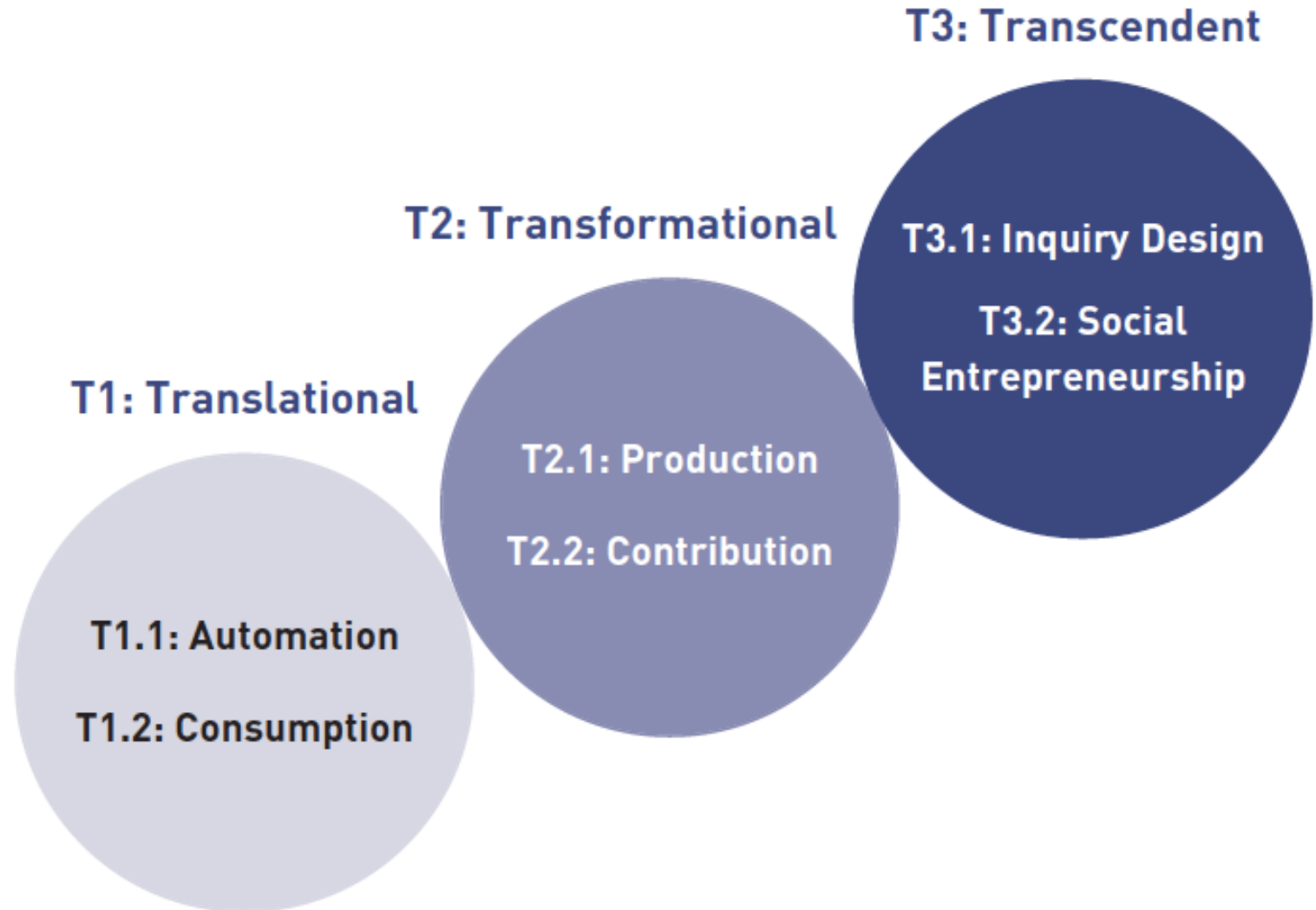
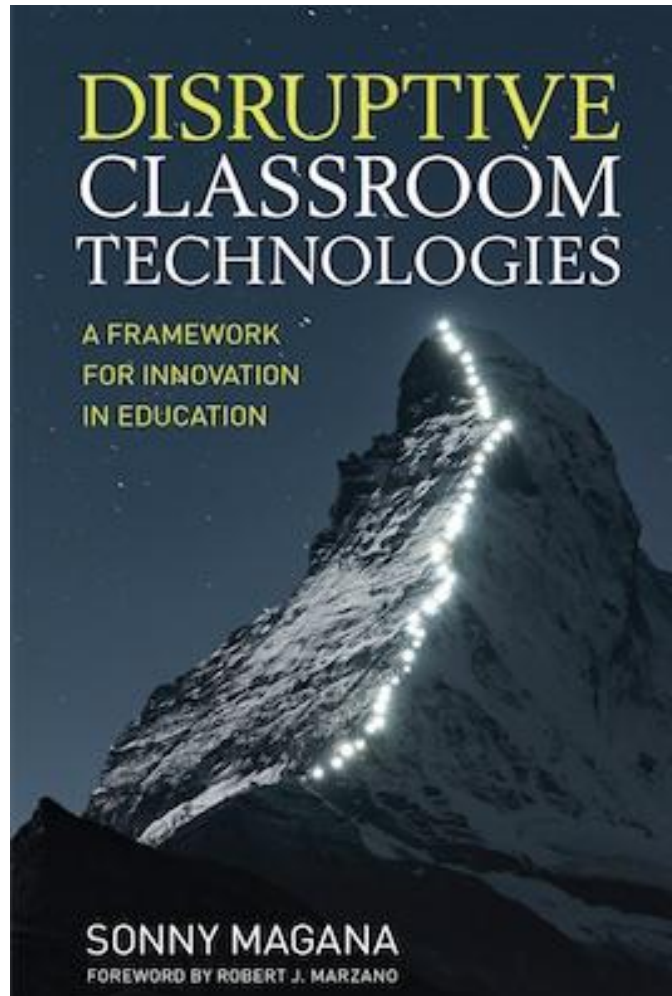
But is improving digital access enough?

The background of the slide is a light blue architectural blueprint. It features a complex network of white lines representing structural elements, walls, and furniture. Various numerical dimensions and room numbers are scattered throughout the drawing. Visible numbers include 1/01, 1/02, 2/02, 3/30, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 488, 490, 492, 494, 496, 498, 500, 502, 504, 506, 508, 510, 512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 564, 566, 568, 570, 572, 574, 576, 578, 580, 582, 584, 586, 588, 590, 592, 594, 596, 598, 600, 602, 604, 606, 608, 610, 612, 614, 616, 618, 620, 622, 624, 626, 628, 630, 632, 634, 636, 638, 640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758, 760, 762, 764, 766, 768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840, 842, 844, 846, 848, 850, 852, 854, 856, 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880, 882, 884, 886, 888, 890, 892, 894, 896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958, 960, 962, 964, 966, 968, 970, 972, 974, 976, 978, 980, 982, 984, 986, 988, 990, 992, 994, 996, 998, 1000. Room numbers include 1/01, 1/02, 2/02, 3/30, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 488, 490, 492, 494, 496, 498, 500, 502, 504, 506, 508, 510, 512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 564, 566, 568, 570, 572, 574, 576, 578, 580, 582, 584, 586, 588, 590, 592, 594, 596, 598, 600, 602, 604, 606, 608, 610, 612, 614, 616, 618, 620, 622, 624, 626, 628, 630, 632, 634, 636, 638, 640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758, 760, 762, 764, 766, 768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840, 842, 844, 846, 848, 850, 852, 854, 856, 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880, 882, 884, 886, 888, 890, 892, 894, 896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958, 960, 962, 964, 966, 968, 970, 972, 974, 976, 978, 980, 982, 984, 986, 988, 990, 992, 994, 996, 998, 1000. The text is in a dark blue serif font, centered on the slide.

The 5 Critical Commitments for Modern Schooling

2. Build and sustain a common language for a 21st century pedagogy.

The T3 Framework for Edu Innovation





“The T3 Framework is a brilliant breakthrough in our understanding and use of technology in education. For those of us on the frontier of deeper learning, Magana’s work is a much-needed gift.

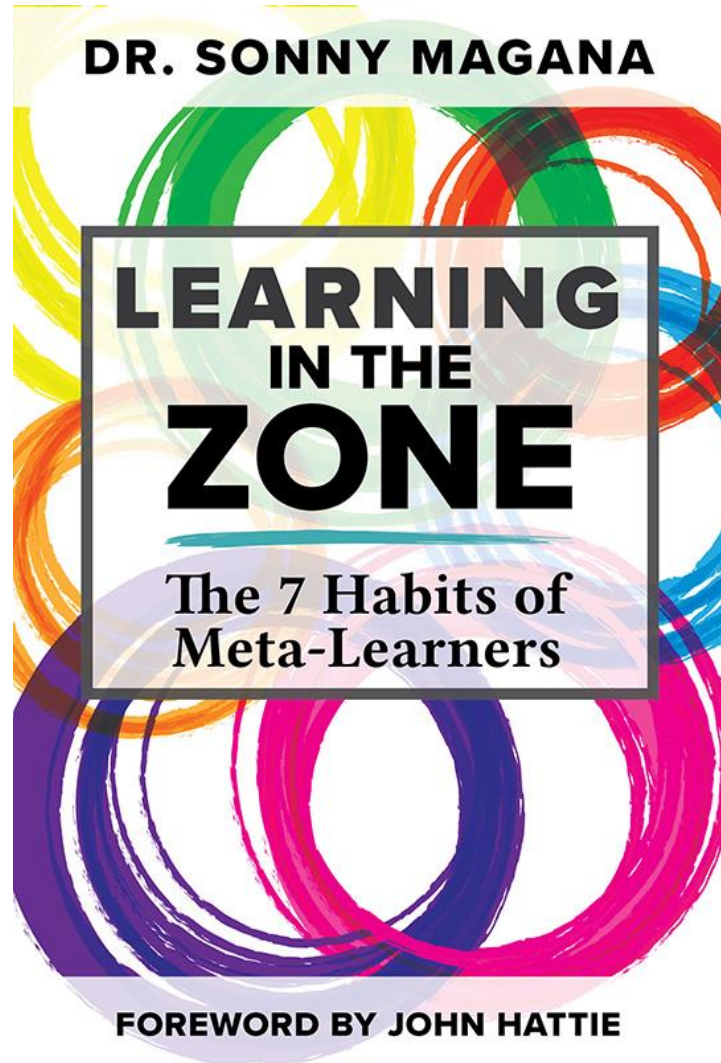
–Professor Michael Fullan

The background of the slide is a light blue architectural blueprint. It features a complex network of white lines representing walls, doors, and structural elements. Various room numbers are visible, such as 1/01, 1/02, 2/05, 2/02, and 3/30. There are also circular symbols and numerical dimensions scattered throughout the plan.

The 5 Critical Commitments for Modern Schooling

3. Build and sustain capacity for Meta Learning.

A New Language of Learning: Meta Learning



Meta learning is the innate human capacity to learn how to *learn, unlearn, and relearn*.

THE SEVEN META-LEARNING HABITS

- 1** Meta-learners commit to personal mastery goals.
- 2** Meta-learners monitor and regulate their emotions, effort, and progress.
- 3** Meta-learners leverage past experiences as building blocks for current and future learning.
- 4** Meta-learners are highly social, active participants in contributive learning communities.
- 5** Meta-learners use conceptual frameworks to contextualize new learning content.
- 6** Meta-learners connect, categorize, and reflect upon new learning content.
- 7** Meta-learners are the source of their own meta-feedback loops.



Magana's concept of Meta Learning sets the foundations for the new pedagogy of the twenty-first century.

–Dr. Robert Marzano



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4. Develop future-focused curriculum pathways that are driven by students' needs, interests, and passions.



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5. Provide multiple opportunities for students to demonstrate mastery.





“Sonny Magana has advanced our understanding of Visible Learning a major step forward. He has truly become the Eddie Van Halen of learning.”

–Professor John Hattie

Q & A *Session*

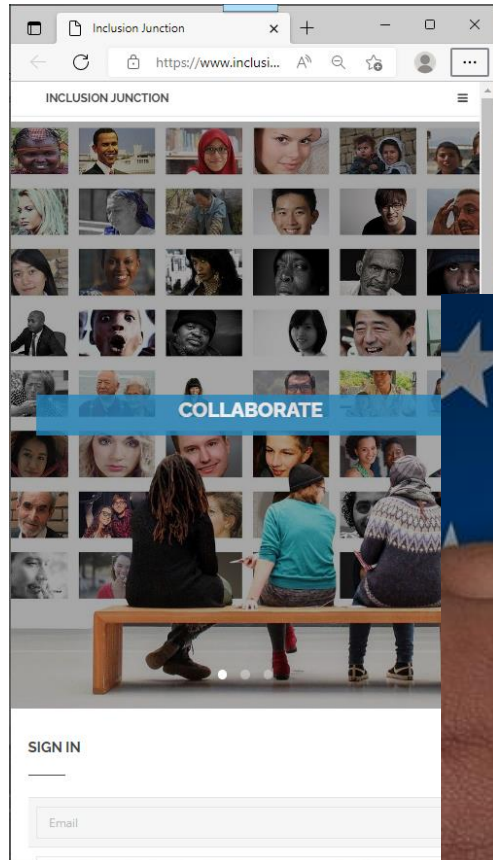


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