

Jackson Area Manufacturers Association

Serving Manufacturers Across South-Central Michigan

Bill Rayl

Executive Director

Jackson Area Manufacturers Association

About JAMA

- Founded in 1937
- Non-profit professional association serving 250+ member companies
- ***Mission:*** To champion activities and create an environment that assists area manufacturers in continuous improvement and success.

Member Services

- Peer-to-Peer Networking
- Job & Résumé Posting Services
- Business Growth & Diversification Assistance
- Marketing of Member Capabilities
- Best Practice & New Technology Info Sharing
- 24/7 Members-only E-mail Discussion List
- Print & Searchable Online Member Directory
- Annual Wage & Benefits Survey Data
- Coordination of Partner Services (MMTC, SCMWI, The EG)
- Legislative Advocacy at Local, State & National Level
- Discounts on JAMA Apprenticeship & Customized Training

Academy for Mfg Careers

- Program Designed by Over 70 Area Manufacturers
- U.S. Dept. of Labor Registered Apprenticeship Program & State Licensed Proprietary School
- Strong Connections to Michigan Works!
- Apprenticeship Linked to College Credit & Degrees
- Linked to Career/Tech Center Manufacturing Programs in Multiple Counties
- DOL Recognition in 2012 as a *21st Century Apprenticeship Innovator and Trailblazer*

The Academy for Manufacturing Careers

Skilled Trades Apprenticeship & Customized Training
Developed *by Manufacturers to Serve Manufacturers*

Program Benefits

- Competitive pricing
- Flexible scheduling
- Courses completed in weeks rather than months
- Courses taught by industry leaders
- Hands-on learning & training
- Provide full student support counseling services
- Academy handles all training & attendance tracking
- Academy completes all DOL Reporting
- Apprentice can achieve Journeyman certification

Apprenticeship Programs

1. Tool & Die
2. CNC Machining
3. Machine Repair
4. Machine Building
5. Indust. Maintenance Mechanic
6. Welding
7. Mold Making
8. Engineering Technician
9. Electrical

We look forward to working with you and are excited about meeting your training needs and developing a customized advanced manufacturing training program designed specifically for your business.

CONTACT INFORMATION:

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Visit us online at
academy4mfgcareers.org
for details on our K-12 Youth
Educational Programs like
I Can Make It Camp,
Machining U,
Engineering is Elementary
and Hot Rod U!



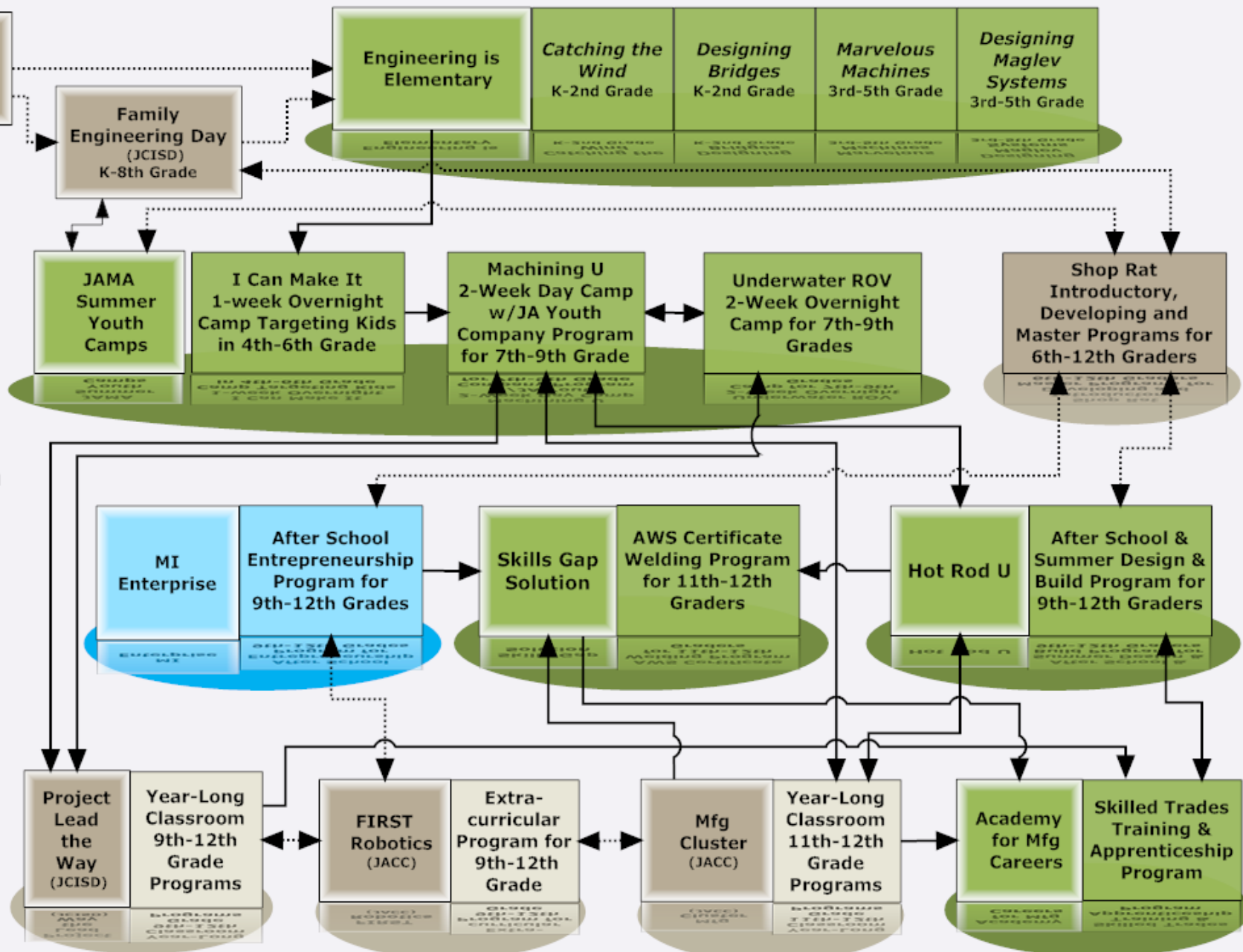
Apprenticeships
and
Customized Training



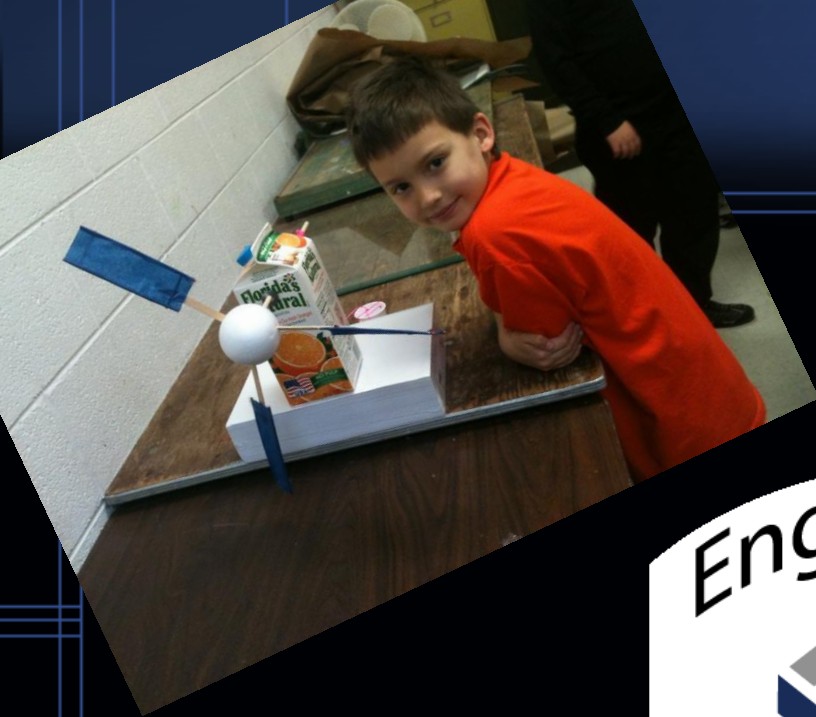
Jackson Area
Manufacturers Association
A Member of the Enterprise Group



JAMA K-12 STEAMM⁺ Educational Pipeline



- = Programs Directly Run by Jackson Area Manufacturers Association
- = Planned for Launch by JAMA in 2013
- + STEAMM = Science, Technology, Engineering, Arts, Math & Manufacturing



Engineering
is
Elementary



K-12 STEAMM Pipeline

- **Engineering is Elementary**
 - Research-based, Standards-Driven, and Classroom-Tested Curriculum from Boston Museum of Science
 - Targeted at K-5th Graders
 - Integrates Engineering/Technology Concepts with Elementary Science
 - Connects STEM Learning with Literacy and Social Studies



I CAN MAKE IT
CAMP



K-12 STEAMM Pipeline

- I Can Make It Camp
 - Week-long Overnight Camp
 - Targeted at 4th-6th Graders
 - Initially Built on FSEA Curriculum/Kits
 - Kids Learn Math & Science through Multiple Design/Build/Test Projects
 - Dual Mentoring Aspect—Kids & Teachers
 - Correlated to Standards & Benchmarks

SHOP RAT



K-12 STEAMM Pipeline

- Shop Rat Educational Program
 - Introductory classes and week-long summer camp for grades 6-8
 - Developing Shop Rat classes for grades 7-9
 - Master Shop Rat class where 9th-12th graders work with industry mentors and develop their own projects

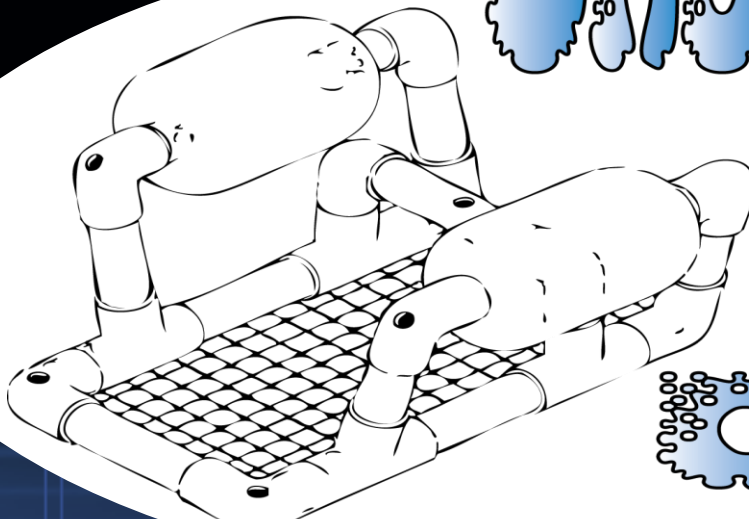
Machining



K-12 STEAMM Pipeline

- **Machining U**

- Two-week Summer Day Camp for 7th-9th Grade Students
- Covers Basics of CAD Design, Blueprint Reading, Metrology, Welding, Machining, Fabrication and More
- Week 1: Kids Make Items to Take Home
- Week 2: Products Made are Priced, Marketed and Sold by the Kids



Underwater
R.O.V.
Camp

A graphic design featuring a white oval on a dark blue background. Inside the oval is a line drawing of a person wearing a full-body robot suit, standing on a pool deck. The text "Underwater" is written in a large, bubbly, blue font at the top. Below it, "R.O.V." is written in a simple, outlined font. At the bottom, "Camp" is written in a bubbly, blue font similar to "Underwater".

K-12 STEAMM Pipeline

- **Underwater ROV Camp**
 - Two-Week Overnight Camp for 7th–9th Grade Students
 - Attendees Engineer and Build Fully Functional Underwater Remote Operated Vehicles (ROVs)
 - SquareOne Network Curriculum Incorporates Applied Science, Engineering Concepts and Aquatic Studies



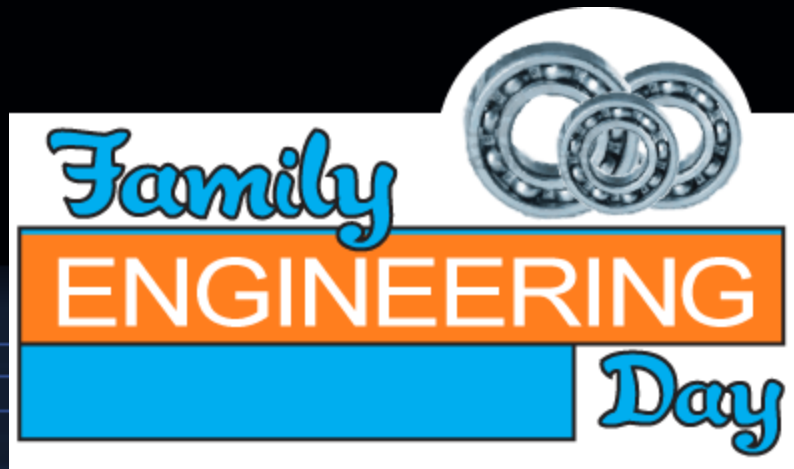
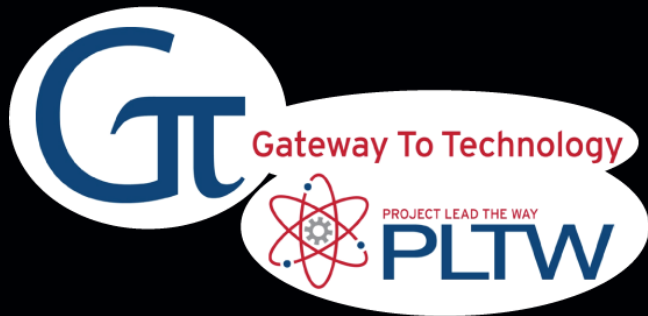
HOT ROD



K-12 STEAMM Pipeline

- Hot Rod U
 - A Series of Summer, After School and Weekend Workshops for 9th–12th Graders
 - Students Participate in Complete Design and Build of a Custom Hot Rod
 - Provides In-depth, Hands-on Intro to Body Work, Frame and Chassis Design, Motors and Transmissions, Auto Interiors, and Various Automotive Systems

K-12 STEAMM Pipeline



K-12 STEAMM Pipeline

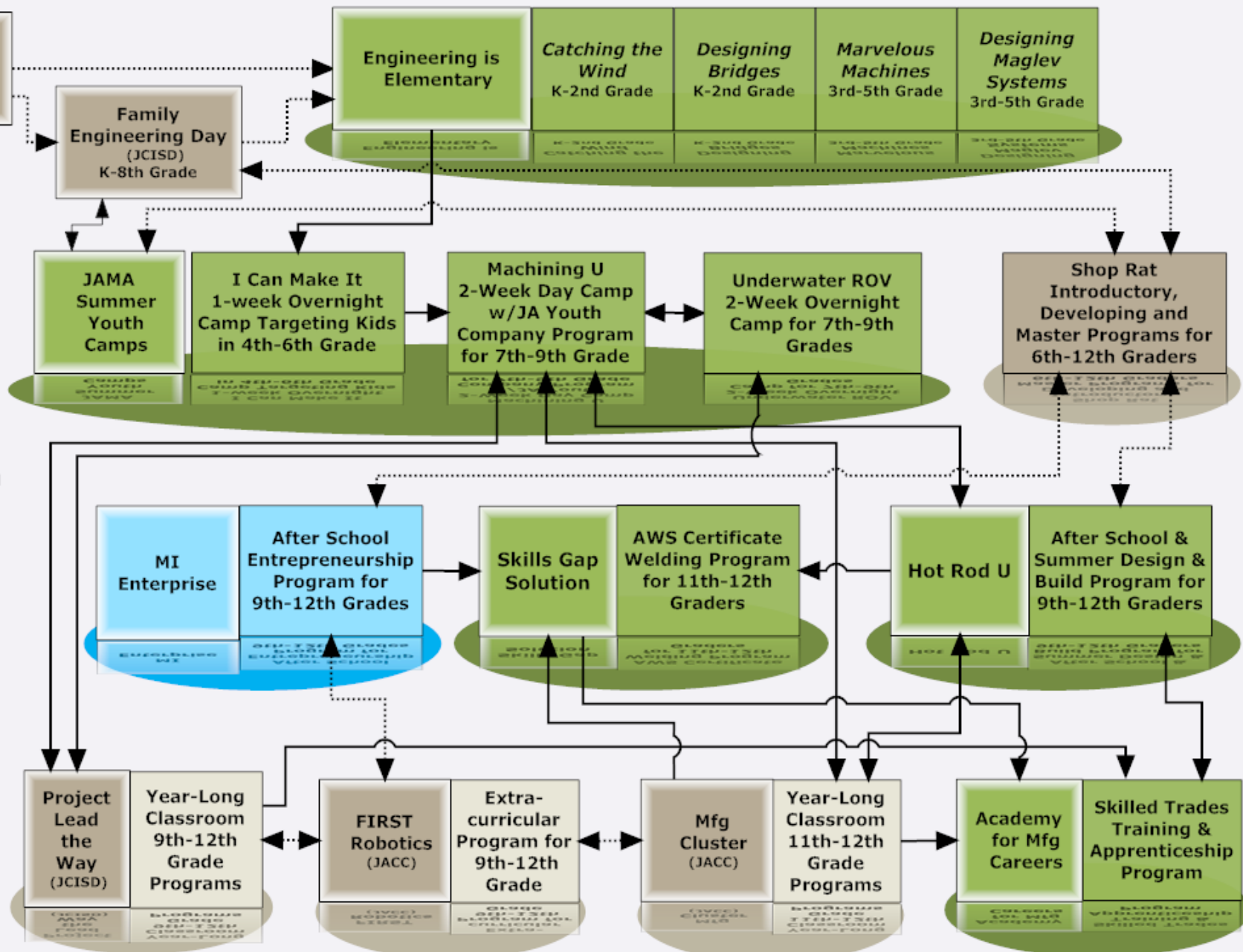
New Programs for 2013

MANUFACTURING 101

BOOT CAMP



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It's Not About the Projects

**It's About the
Partnerships!**

Our Key Local Partners

- South Central Michigan Works!
- K-12 Schools, ISDs, Career/Tech Centers & Post-Secondary Institutions
- United Way, Shop Rat Foundation, Jackson County Community Foundation
- Junior Achievement/CP Federal CU
- City of Litchfield, MI

The Connection Point **Development of** **Economic Opportunity** **through Education and** **Training of Existing** ***and Future* Workforce**

Words of Wisdom

“Every prince needs allies, and the bigger the responsibility, the more allies he needs.” —**Silvio Berlusconi**

Useful Web Links

Engineering is Elementary

www.mos.org/eie

Future Scientists & Engineers of America

www.discoverycube.org/fsea

Square One Education Network

www.squareonenetwork.org

Academy for Manufacturing Careers

www.academy4mfgcareers.org

Shop Rat Foundation

www.shoprat.org

Contact Info

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Questions?