pragmatic
without us, it's just a game™

Fact Sheet
Pragmatic Solutions, Inc. | www.pr-sol.com

- Pragmatic Solutions was incorporated in 2002 to serve a single purpose: design and deploy innovative computer-based systems that maximize the collection, aggregation, and analysis of real-time data to individualize and enhance a user's experience and performance.

- To achieve this vision, Pragmatic has worked to build expertise in a broad range of domains, including K20 education, teacher training, workforce development, military training, assessment, educational research, and game-based learning, among others. Capabilities amassed include systems design, database architecture, scalable distributed networks, big data, user engagement, models for user on-boarding and support, rapid prototyping, and innovative assessment.

- Our corporate headquarters are in Westlake Village, CA.

Pragmatic Technology Expertise & Solutions

	Data Management – Scale, Reliability, Security	America's Army simSchool Teacher Simulator Curtin University Mission Skills Assessment	12 million users 11,000 users 1 million users 30,000 users
	Pushing the boundaries of innovative assessment	English Language Learning Initiative Citytown Army Research Institute 3C	multiple U.S. States multiple U.S. States Path to Government
	Reliable service delivery	Mission Skills Assessment ARI 3C Curtin Challenge	30,000 users military sector 1 million users
	General technology solutions	Collaborative Frame Project ARI 3C Corporation for Public Broadcasting	Path to Distribution Path to Government 120,000 users, 25 states
	Experience and knowledge in user engagement	Age of Learning (ABC Mouse) PISA	1 million users 70 countries
	Understanding of cross cultural and organizational intelligence	Partners in North and Central America, South America, Europe, Africa, Asia, and Australia	online customers in over 140 countries worldwide

Over **14 million users** around the world impacted by Pragmatic systems

Pragmatic's K12 Education Case Studies
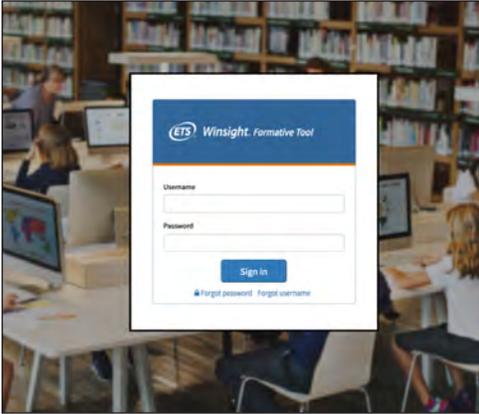
Formative Assessment Systems

- Developing a Formative Platform for one of the world's preeminent Assessment companies for use in the classroom. Pragmatic was engaged to build an innovative technology ecosystem of tools enabling formative and interim assessment informed by real-time instructional improvement and historical assessment data.

- Pragmatic's solution is grounded in practices that ensure accessibility, reliability, transparency, security, adaptability, and sustainability, thus ensuring maximum success across all use cases. Multi-platform, multi-browser, and multi-standard compliant, the system seamlessly blends historic and real-time performance data to inform formative skill building, on-demand formative classroom content, interim assessments, and meaningful reporting to all possible constituencies.

Availability: Custom on Demand

Performance-based Assessment and Game-based Learning

- Partnered with ETS K12 Assessment, Research and NPD

- Game based scenarios using creative stories to present innovative new item types and performance assessment experiences

- Device comparability (PC, tablet), affordances and accommodations

- Expanded our rapid development tools to support and accelerate process from script to storyboard to production

- New types of assessment items include dynamic, adaptive, interactive, multi-item, layered construct, narrative-driven "scenario-based assessment" items

Availability: Custom on Demand

Pragmatic's K12 Education Case Studies

Collaborative Problem-Solving Frame

- Solve problem of existing tools being embedded in GLASS Lab game developed through GLASS Lab collaboration

- Create tool that is multi-platform, game agnostic, with content integration from multiple games

- Platform for live streaming multi-player text, audio and video communication

- Capturse raw event for]each keystroke

Availability: Licensed and Custom on Demand

Non-cognitive and Cognitive Assessment

- Support for over 50 traditional and technology-enhanced item types across multiple platforms

- No cap on number of simultaneous test-takers

- 100% data collection in 2013 - 2017

- full web & phone support

- On-boarding, training videos, administrative portal supported

- Live data reporting for teachers & administrators

- Automated score reporting to increase efficiency and address client need

Availability: Licensed and Custom on Demand

Pragmatic's Higher Education Case Studies

simSchool Educator Preparation Platform

- Incorporated Pragmatic expertise in big data, game-based learning and distributed populations

- Improved rendering times, live content authoring, massive scale

- 10 trillion learner profiles on demand

- Generating and capturing hundreds of data points per "tick" applying the system's psychological model to virtual students (delivered in live reports)

- Reports reflect student's emotional state for every "tick" as a response to teacher (user) actions

Availability:	Licensed and White-labeled

Challenge and Team-based Global Platform

- Available to 10's of thousands of potential university students

- Designed to fill a demad in needed social learning experiences unmet by Blackboard, MOOCs and other university systems

- Designed to integrate and aggregate data across all e-learning applications

- EdX integration to provide learning analytics

- Data-rich with a sample of 500 students generating over 600,000 raw data events in 6-wk period
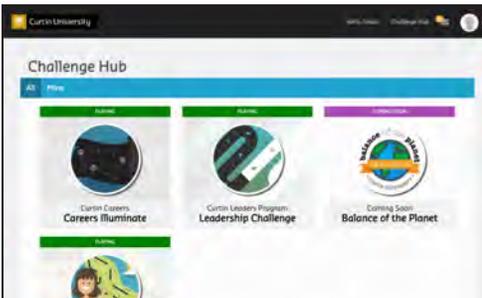
Availability:	Licensed, Custom on Demand, and White-labeled

Pragmatic's Higher Education Case Studies
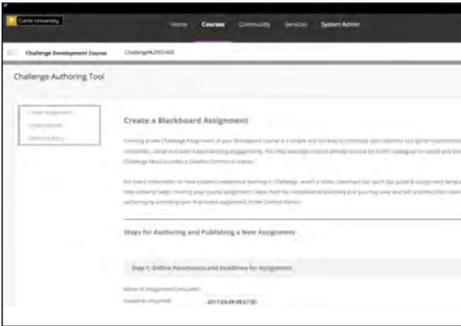
Custom Blackboard Building Block Development

- Ability to create custom tools to author dynamic content in Bb

- Integrated pipeline enables content to be deployed live to web-based environment

- Extends utitilty of static content by enables instructors to deploy as a team-based experience

- Ability to integrate through simple authoring tool to co-publish content to EdX, Blackboard, and Challenge environments

Availability: Licensed, Custom on Demand, and White-labeled
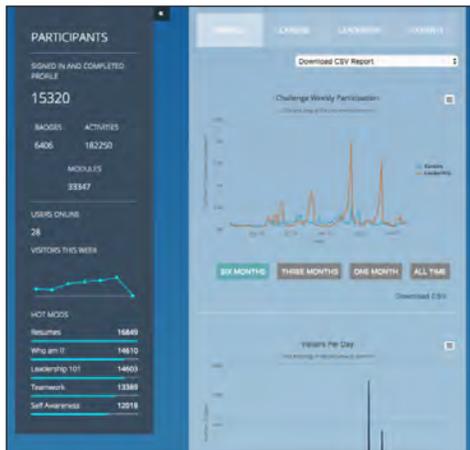
Integrated System Data Dashboards

- Through Leverage Systems Broker, ability to aggregate and analyze live data through infinite number of external systems

- Customizable, exportable data reports

- Live leaderboards to track usage and popularity of content and systems

Availability: Licensed, Custom on Demand, and White-labeled

Pragmatic's Workforce Case Studies

Next Generation Games & Simulations

- Over 12 million users, 40 countries

- No limit to the number of trackable individual data points, aggregate sets for groups of users, content categories, achievements, and character progressions

- Able to process in excess of 1tb of raw data per day

- History of 99.9% uptime year over year

- Advanced security model using a variety of encryption methods

- Backbone is Pragmatic's Leverage Platform

- Full adaptability managed server-side as a core game element

Availability: Custom on Demand

Army Research Institute Cross-Cultural Competency Assessment

- Building on expertise thru working on game-based and conventional assessments in K20 education

- Tasked with investigating, proposing, creating, and deploying new and innovative item types

- Innovated scenario-based assessment as means to engage and immerse while preserving ecological authenticity and cognitive fidelity

- Maintained "light" applications to support the security model

- Rapidly iterated and web-deployed

- Integral to Validation award from military awarded to prime contractor

Availability: Custom on Demand

Pragmatic's Workforce Case Studies

Badging and Micro-credentials

- Evaluated the feasibility and utility of digital badges for proficiency and project-based assessment in diverse and distributed middle and high school under-resourced schools and learning centers

- Worked with over 100,000 students in 40 states

- Lead discussions and trainings on the meaning of assessment, the integration of tech into ed settings

- Worked closely with top leaders in education to evaluate COPPA, FERPA, social media, and related legal, moral, education and workforce implications of awarding and sharing digital content and student data across otherwise closed systems.

Availability:	Licensed, Custom on Demand, and White-labeled
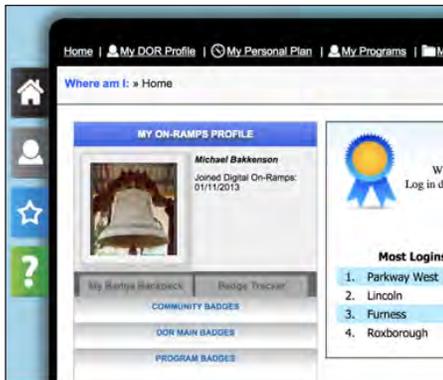
Highschool to Workforce Portfolio Development

- Worked with 12 service providers in education, workforce development and government

- Developed prototype pilot to evaluate engagement and assessment within disadvantaged, digitally disconnected population aged 14-65

- Created rich administrative tools for multiple classes of stakeholders

- Optimized tools for multi-device and browser compatibility in low bandwidth situations

- Researched and defined best practices for designing online tools for low language and technology literacy populations

- Pioneered methodology for using SMS in live training settings to communicate with and persist evidence and achievements to cloud-based LMS

Availability:	Licensed, Custom on Demand, and White-labeled

Pragmatic's Enterprise Solutions Case Studies
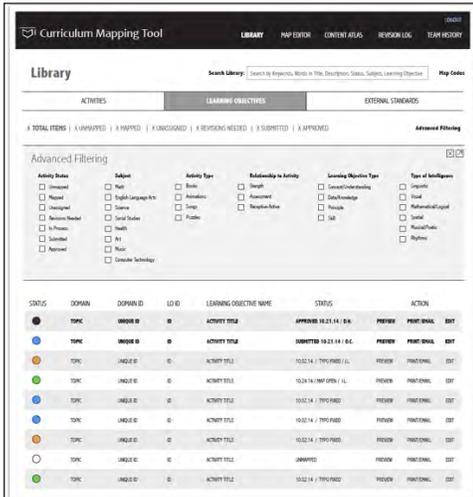
Information Architecture and Systems Analysis

- Internal Content Management System

- Curriculum mapping / tagging system

- Improves workflow and efficiency when internal tools do not allow mapping to or across multiple external standards, learning outcome relationships, and other attributes

- Necessary to improve internal workflows + accommodate business need to enhance external public search options and content recommendations for user constituencies

Availability:	Custom on Demand
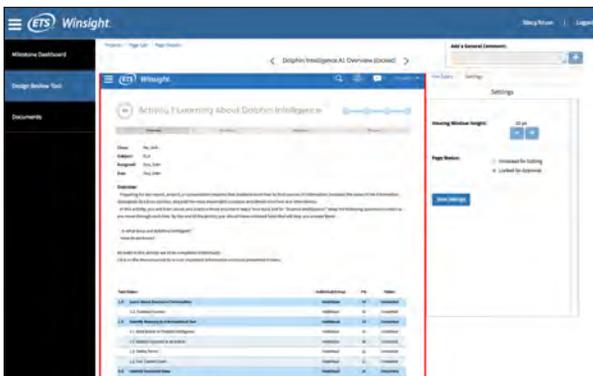
Content Protyping and Dynamic Content Review Toolkit

- Tool allows for both wireframes and actively published web-based tools to be reviewed, commented on, assigned by project team, and managed in a web-interface that fully captures all input in the format and medium end-user tools are intended to be experienced

- Improves efficiency by constraining feedback to a single platform that enables reviewers to fully evaluate intended UX/UI/IA and workflows as it is intended to be displayed to users

Availability:	Licensed, Custom on Demand, and White-labeled