

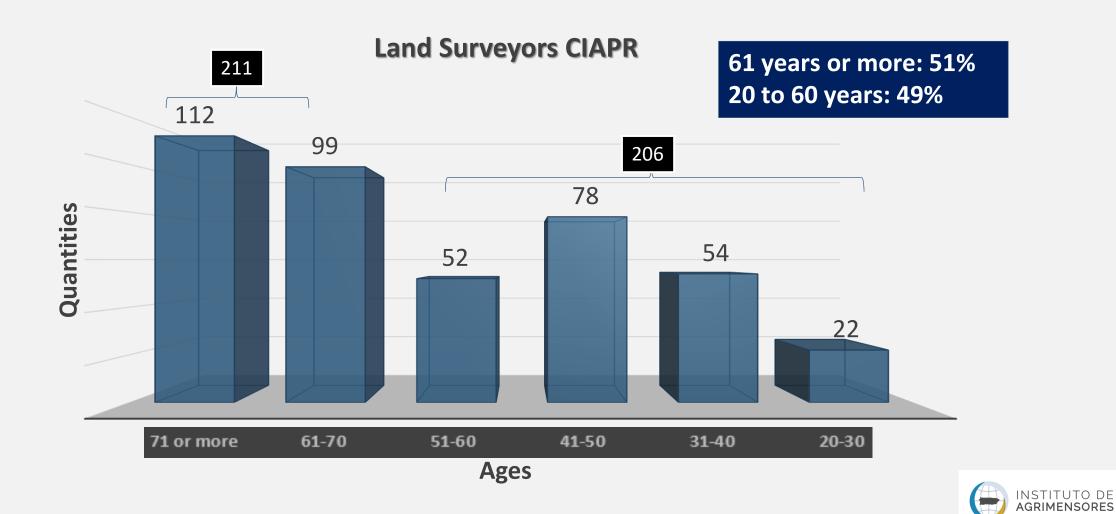
A CASE FOR CHANGE: ENCOURAGING NEW LAND SURVEYORS

INSTITUTE OF LAND SURVEYORS
PROFESSIONAL COLLEGE OF ENGINEERS AND LAND SURVEYORS
OF PUERTO RICO

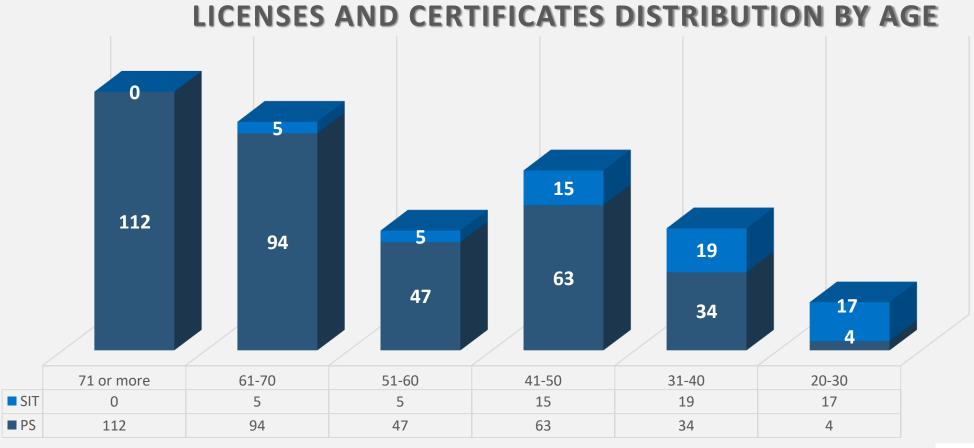
OBJECTIVE

THE PLAN NEEDS TO BECOME THE LEADING INSTRUMENT USED AT THE INSTITUTE TO DEVELOP AND GROW LAND SURVEYING IN PUERTO RICO.

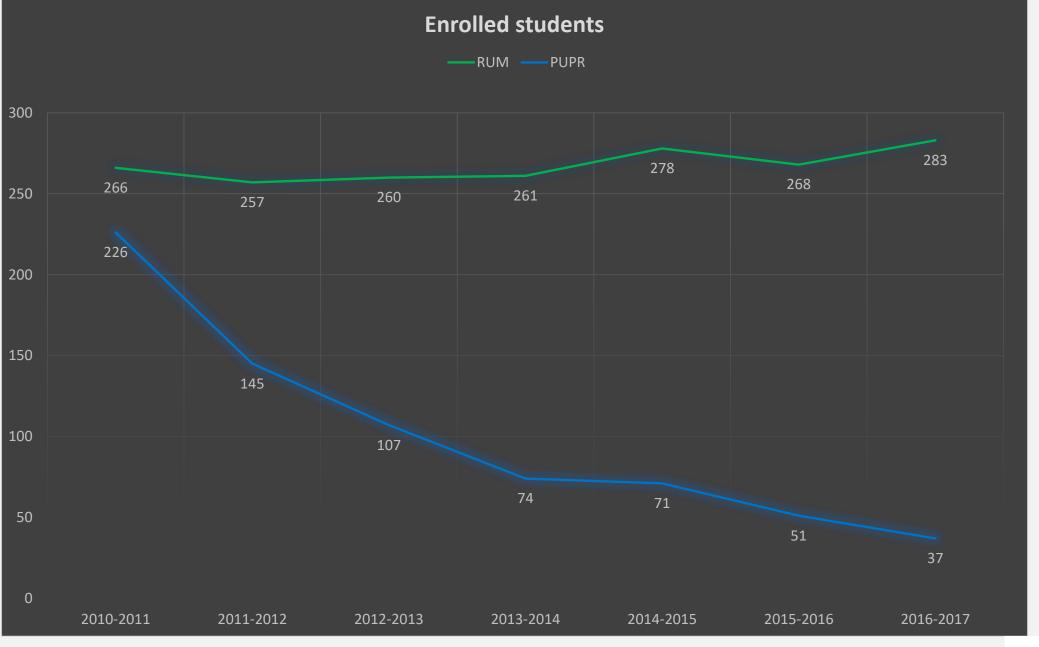
Land Surveyors age crisis



License crisis









A Case for Change

- Membership to the CIAPR has staggered for the past 10 years (new members are hard to find each year).
- The Institute does not have demographics on their side (low replacement rate).
- College degrees for land surveying programs have plummeted.
- Low application rates.
- High dropout rates or students transferring to other programs.
- The few new graduates are not getting their license.

These factors together call for radical change to existing approach, or worrying trend will continue.



We are not alone

• Different countries have been reporting similar problems, including low student numbers, closure of surveying courses, and an aging profile of the professional surveyor, among many others.

• Some of these countries have established new and radical approaches that have resulted in increasing interest of young professionals becoming land surveyors.



Deconstructing the problem



New Degrees

Requirements to get license and perform land surveying work

New Licenses

New land surveying derived disciplines getting more attention

Technology and Innovation





Audience Development To expand the scope and reach of land surveying/land surveyor and to educate on this matter.

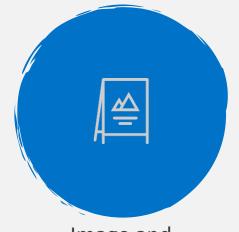


Image and
Branding
To create a new brand
and image for land
surveying that
encourages new
professionals into the
field.



Regulation and
Licensing
To study and analyze
the viability of
revising all current
requirements.

The Plan

Based on the analysis of the current state of the profession, 3 impact areas were identified as part of the new Plan to change the course.



AUDIENCE DEVELOPMENT

THERE ARE OTHER PROFESSIONALS THAT RELY ON LAND SURVEYING TECHNIQUES, SCIENCE AND TECHNOLOGY. LAND SURVEYING NEEDS TO EMBRACE THIS AND INTEGRATE THEM INTO THE PROFESSION. JUST BECAUSE THEY ARE NOT PROFESSIONAL SURVEYORS DOESN'T MEAN THEY ARE NOT PART OF THE FAMILY (LETS BROADEN OUR SCOPE AND OUR AUDIENCE).



Audience Development

To expand the scope and reach of land surveying/land surveyor and to educate on this matter.

Year	Outcomes
1	Develop a new and broader definition for land surveying/land surveyor, based on the wide spectrum of capabilities, services offered and use of high-tech tools as establish in the official definitions for NCEES, FIG and NSPS.
	Establish a plan to integrate new areas/services identified into the profession and the Institute's core programs.
	Create a recruiting and mentorship program for existing and new programs.
2	Establish metrics to measure the success of all the educational programs, including new ones integrated into the Institute.



IMAGE AND BRANDING

THERE ARE SEVERAL ISSUES WITH LAND SURVEYING IMAGE IN PUERTO RICO.

THEY DON'T KNOW WHAT WE DO (THEY EVEN CONFUSE US WITH "AGRONOMOS")

THEY THINK ALL WE DO IS LAND SEGREGATIONS.

THEY HAVE AN IMAGE OF A "VIEJITO CON UN PALITO"



Image and Branding

To create a new brand and image for land surveying that encourages new professionals into the field.

Year	Outcomes
1	Develop a new brand that connects with current professionals and allows the Institute to better engage with young students and other potential prospects for becoming land surveyors.
	Launch the new branding to land surveyors so they can embrace it and help the Institute's new branding and audience development efforts.
2	Overall increase the general public's awareness and recognition of land surveying.



REGULATION AND LICENSING

THE HARDER WE MAKE IT FOR A PERSON TO BECOME A LAND SURVEYOR, THE LESS LIKELY THEY WILL WANT TO JOIN THE PROFESSION. WE CAN MAKE IT LESS DIFFICULT AND AT THE SAME TIME, PROTECT THE QUALITY OF THE PROFESSION.



Regulation and Licensing

To study and analyze the viability of revising all current requirements to achieve the professional license.

Year	Outcomes
1	Create a special committee responsible for the development of a study regarding the viability of revising currents regulations.
	Present the conclusions of this study to the directors' board.
2	Implement the recommendations of the study.



First year

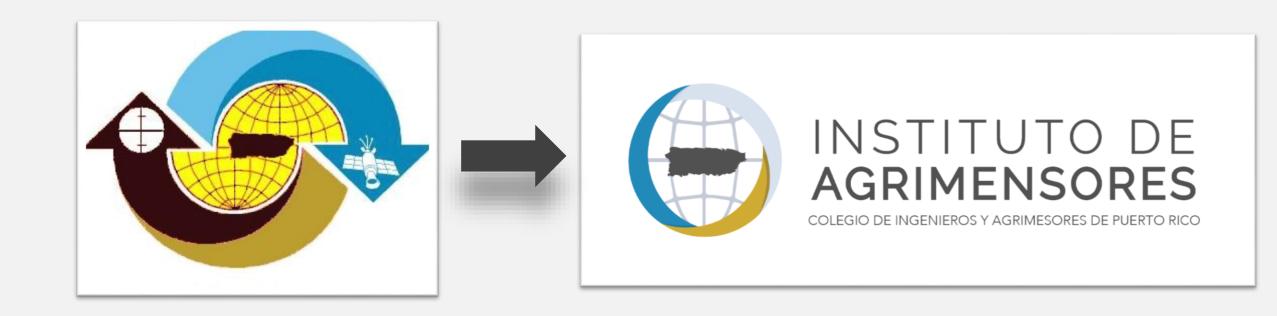






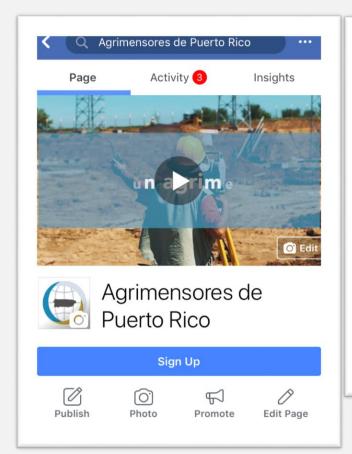
Audience development





Rebranding: modernized logo









Facebook page

Agrimensores de Puerto Rico





5 new photos. October 25, 2017 - 3

Con la ayuda de más de 25 voluntarios se logró digitalizar cerca de 20 millas cuadradas. Nos enfocamos en el área entre Mayagüez, San Germán y Cabo Rojo que eran las áreas menos digitalizadas de la isla. ¡Seguimos ayudando! #FoundationforPR #PuertoRicoSeLevanta #HelpSaveOurIslandParadise







34/NEGOCIOS EL NUEVO DÍA + elcuevoda.com

La raíz del problema de María

LA OPINIÓN EXPERTA



Agrim. Ruth L. Trujillo Rodriguez

Presidenta Instituto de Agrimensones - CMPR

con adelantos tecnológicos para medir y localizar cualquier cosa en nuestro planeta. El hecho de que tras el paso del huracán Maria, aún hay puntos en Puerto Rico que no han recibido ayuda o sido identificados, es contrario a la tecnología y ciencia que tenemos en

Ante la trágica realidad que vivimos, agrimensores utilizamos con frecuencia y que en estos momentos resalta lo que entiendo resulta ser la raíz del problema de la atención a la emer-

oespaciales que alimentan un sistema de información geográfica (útiles para localización) son fundamentales para todo lo que hacemos, aún sin darnos cuenta. Esta información nos permite ticas de esa población, en fin, factores sen sido más efectivos al momento de vidas. Por esta y muchas otras razones, resulta imperativo que los gobiernos cuenten con información geoespacial exacta y confiable, que cumpla con los estándares federales aplicables y que les permita planificar tomando en consideración estos factores. Esto no ocurre hoy dia y el Committee resultado es tratar de resolver a base de la improvisación.

El agrimensor es el profesional que

preta y analiza este tipo de información geoespacial. Es esta combinación única la que le permite al agrimensor, no solo recolectar y analizar datos y convertirlos en información vital para la respuesta ante eventos atmosféricos, sino también acaparar los muchos aspectos humanos y físicos que interactúan cuando se trabaja con estos asuntos. No hay excusa para que Puerto Rico carezca de este tipo de información geoespacial, lo que ha resultado en una toma de decisiones sin descansar en información fidedigna

Nuestro diario vivir se ha convertido en una dinámica de escuchar y leer las constantes críticas, quejas y reclamos sobre la logistica de distribución de suministros post huración Maria. Atin con la llegada del ejército de los EEUU. viene a mi mente un dicho que los a cuenta gotas en los lugares más remotos de nuestro archipielago.

Este evento catastrófico que hemos vivido debe ser lección para nuestros gencía: "La buena coordinación co-hubiese contado con una base de En palabras simples, los datos ge- y en cumplimiento con los más altos estándares federales, tanto los gobiernos municipales, como el estatal y el federal, hubiesen tenido la mayor y mejor herramienta: un mapa de múlidentificar las mejores rutas para lle-hubiera mostrado la ubicación exacta var alimento, la infraestructura con la de las necesidades de nuestra poresponder ante la emergencia.

Es requisito ineludible que Puerto Rico cuente con toda la información geoespacial en un solo lugar y se mantenga al nivel de exactitud y en el formato que reúna los requisitos y sea compatible con las normas establecidas por el Federal Geographic Data

Ante esta gran lección, una oportunidad se presenta. Cumplamos con mide el espacio, representa, inter- mos a las futuras generaciones. nuestra responsabilidad; se lo debePercentage of completely new seminars: 91%

Develop a new and broader definition for land surveying/land surveyor.

Target schools at various levels (elementary, middle and high) and programs as Boy Scout through the merit badge of surveying.



Schools K-12



















Get Kids into Survey



Get Kids into Survey



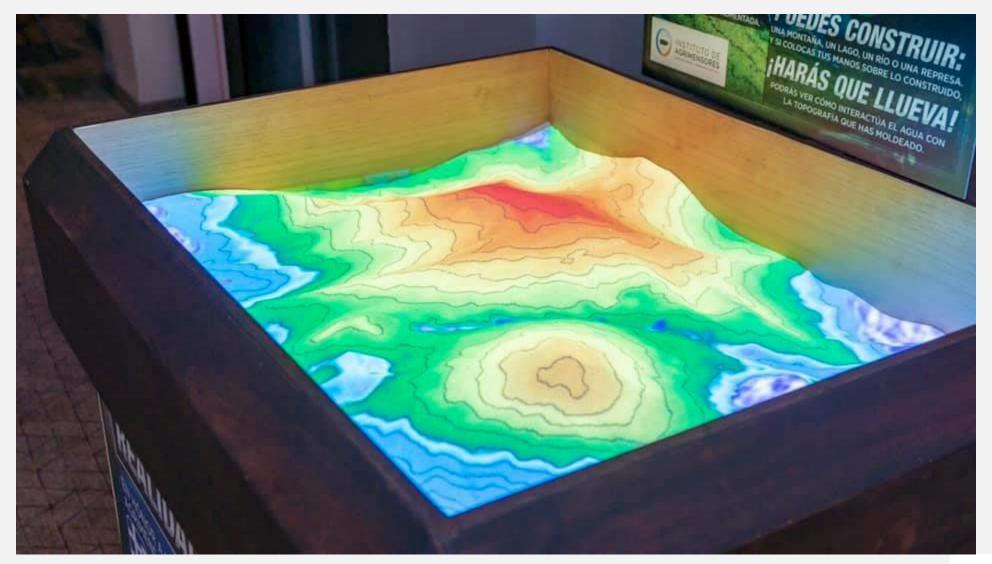


Sandbox





Sandbox







Expectations



Expectations

- Increase percentage of Land Surveyors indicating a broader scope of work.
- Continue to integrate new areas/services identified into the profession.
- Increase CIAPR Land Surveyors' membership.
- Continue to increase land surveying students enrolled.



THANKYOU

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