

Smart and Sustainable Libraries
31 Oct-01 Nov 2023 | Bangkok, Thailand

MAKING YOUR LIBRARY SMART AND SUSTAINABLE: A LOOK AT PRACTICES AND EXPERIENCES



Christine M. Abrigo

De La Salle University Manila, Philippines christine.abrigo@dlsu.edu.ph

Agenda

01

Introduction

02

Smart and sustainable libraries: A look at practices

03

Going smart and sustainable: The DLSU Libraries' experience

04

Takeaways



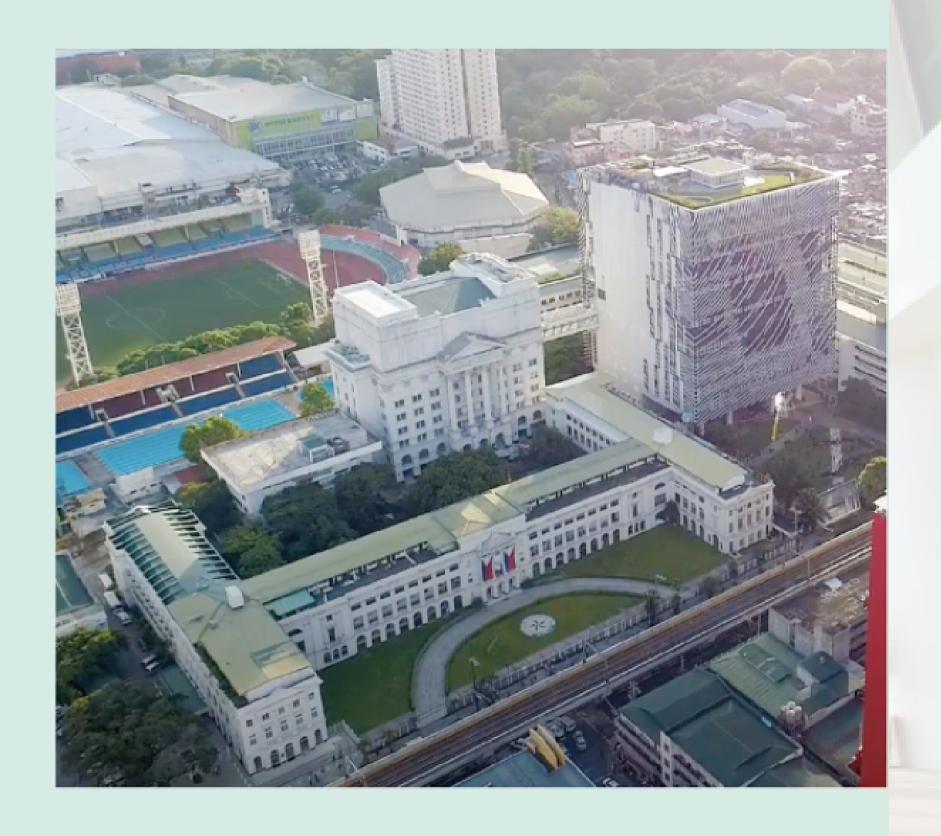


www.dlsu.edu.ph

ABOUT DLSU

De La Salle University positions itself as a learner-centered and research institution of higher learning, building the foundation of tomorrow's leaders. The University is renowned for its academic excellence, groundbreaking research, and empowering social engagement.

Acknowledged as a premier university, it serves as a significant resource for the Philippines and the ASEAN region by developing leaders and achievers in business, public service, education, science and technology, and the arts.



ABOUT DLSU

Taking on the challenges of a global society, DLSU actively collaborates with international organizations and consortia such as ASEAN University Network, of which it is a Founding member.

As a Catholic coeducational school founded in 1911 by the Brother of the Christian Schools, DLSU continues to pursue educational ideals geared towards social transformation and people empowerment.









FAST FACTS

- One of 63 La Salle Higher Education Institutions worldwide
- One of 16 La Salle schools in the Philippines
- One of the top three universities in the Philippines
- First to receive the ASEAN University Network Quality Mark at the Institutional Level
- 18 DLSU programs have been assessed by the AUN Quality Assurance, by far the most in the country

CAMPUSES



De La Salle University Manila Campus 2401 Taft Avenue Manila



De La Salle University Laguna Campus LTI Spine Road Laguna Boulevard City of Binan, Laguna



De La Salle University **Rufino Campus** University Parkway Bonifacio Global City Taguig



De La Salle University Makati Campus 5th Floor, RCBC Tower II Ayala Avenue Makati City



McKinley Microcampus Venice Corporate Center, McKinley Hill, Taguig City



Lian Campus Sitio Matuod, Binubusan, Lian, Batangas

COLLEGES AND SCHOOLS























- Association of Christian Universities and Colleges in Asia (ACUCA)
- ASEAN International Mobility for Students (AIMS)
- Association of Southeast Asian Catholic Colleges and Universities (ASEACCU)
- Association of Southeast Asian Institutions of Higher Learning (ASAIHL)
- ASEAN University Network (AUN)
- ASEAN University Network+3 (AUN+3)
- AUN Thematic Networks
 - AUN Southeast Asia Engineering Education Development Network (AUN/SEEDNet)
 - AUN Human Rights Education (AUN-HRE)
 - AUN University Social Responsibility and Sustainability (AUN-USR&S)
 - AUN AEC Thematic Network (AUN-AEC)
 - AUN Student Affairs Network (AUN-SAN)
 - AUN on Culture and Arts (AUN-CA)
 - AUN Thematic Network on Architectural Design Education and Research in ASEAN (AUN-ADERA)
 - ASEAN University Network for Technology-enhanced Personalised Learning (AUN-TEPL)
 - AUN Inter-Library Online (AUNILO)



MAJOR GLOBAL LINKAGES

- AUN ASEAN Credit Transfer System (AUN-ACTS)
- AUN Health Promotion Network (AUN-HPN)
- AUN Disability and Public Policy Network (AUN-DPPnet)
- AUN Sustainable City & Urban Development (AUN-SCUD)
- AUN University Innovation and Enterprise (AUN-UIE)
- AUN Thematic Network on Ecological Education and Culture (AUN-EEC)
- EU Support for Higher Education in ASEAN Region (EU SHARE)
- Global Education: Exchanges for Engineers and Entrepreneurs (GE4)
- International Association of Lasallian Universities (IALU)
- University Board for Christian Universities (IFCU)
- University Board for Christian Higher Education in Asia (UBCHEA)
- University Mobility in Asia and the Pacific (UMAP)
- University Cooperation for Internationalisation (UNCOFIN)

2023 Times Higher Education World University Rankings and Rankings by Subject















EduRank

Philippine private university 2023 EduRank 100 Best Universities in the Philippines

Top Philippine university

Business Computer Science Economics Math **Psychology**

Top Philippine private university

Biology Chemistry Engineering **Environmental Science Liberal Arts** and Social Sciences **Physics**

Clean Water and Sanitation Top 101-200

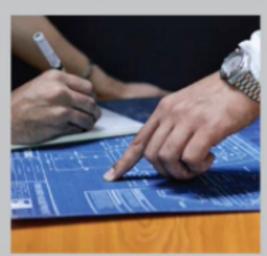


Life **Below Water** Top 101-200



Responsible Consumption and **Production** Top 201-300





Partnership for the Goals Top 301-400



No Poverty Top 401-600



Quality Education Top 601-800



DLSU is among the world's leading HEIs in delivering the United Nations' Sustainable Development Goals. The University is ranked in the following SDGs in the 2022 Times Higher Education Impact Rankings:



"A **smart library** is not just a complex technology framework; it is also an enhanced service concept with the goal of providing quality service and a good user experience."

Cao, G., Liang, M., & Li, X. (2018). How to make the library smart? The conceptualization of the smart library. *Electronic Library*, *36*(5), 811–825. https://doi.org/10.1108/EL-11-2017-0248

Components of a smart library

Smart Technology

- Wearable technology
- Mobile Internet
- Intelligent processing technology
- Cloud computing
- Virtual and ubiquitous technology
- Data mining
- Al and the loT

Smart Service (User-centered)

- User needs analysis
- Precise service based on a smart system
- Increased activity
 participation by
 providing high-level
 services
- Smart spaces

Smart People (User and Librarian)

- Users
- Librarians

Four dimensions of a smart library

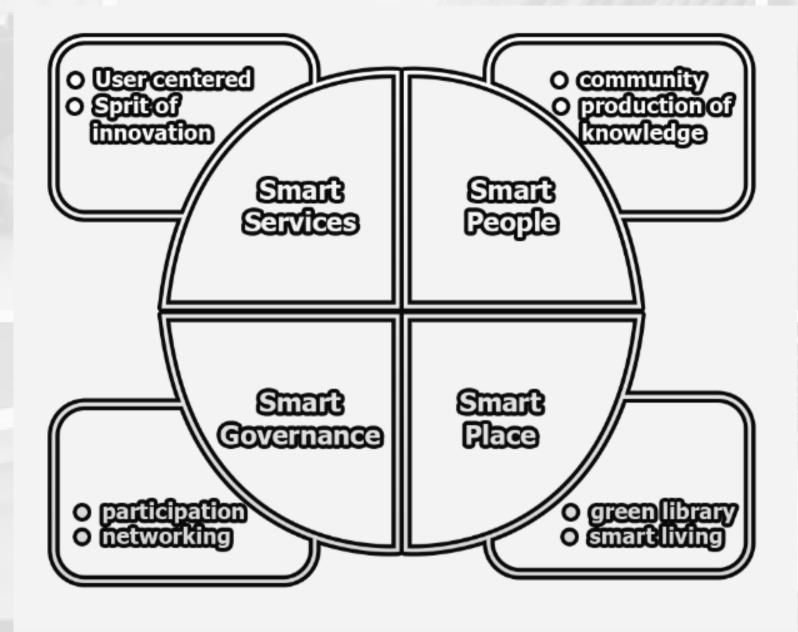


Figure: Four dimensions of the smart library

"Green library also includes the use of green technologies, strategic planning, and adopting green practices, which contribute to sustainability, in libraries."

Gupta, S. (2020). Green library: a strategic approach to environmental sustainability. *International Journal of Information Studies & Libraries*, 5(2), 82–92. https://ssrn.com/abstract=3851100

A sustainable library...



...adopts a green design and interior



...incorporates green practices in day-to-day operations of libraries



...implements green collection development and literacy programmes



...adopts emerging innovative and smart technologies that can be integrated into the functioning of libraries

Gupta, S. (2020). Green library: a strategic approach to environmental sustainability. *International Journal of Information Studies & Libraries*, 5(2), 82–92. https://ssrn.com/abstract=3851100

Alookat practices...



Adopt smart practices
Adopt sustainable practices

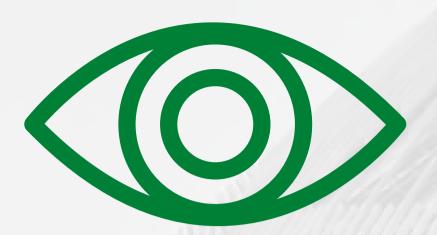
A look at practices: AUNILO Member Libraries

	University Network Libra	nes									
eloistite	e investigation										
					Smart				Sueta	inable	
Country		Institution	Technology integration	Digital resources	Data analytics	Interactive spaces	Mobile apps	Green design	Green practices	Green collection	Green literacy
1	BRUNEI DARUSSALAM	Universiti Brunei Darussalam	ж	х	х	х	No info	х	ж	ж	ж
2	CAMBODIA	Royal University of Law and Economics	ж	Х	х	х	No info	х	х	ж	х
3	CAMBODIA	Royal University of Phnom Penh	х	х	ж	х	No info	х	х	ж	х
4	INDONESIA	Institut Teknologi Bandung	ж	х	х	х	х	х	х	х	х
5	INDONESIA	Universitas Airlangga Library	ж	х	х	х	No info	х	Х	х	х
6	INDONESIA	Universitas Indonesia	ж	х	х	х	No info	х	Х	х	х
7	INDONESIA	Universitas Gadjah Mada	X	х	х	х	No info	х	Х	х	х
8	LAOS PDR	National University of Laos	ж	х	х	х	No info	х	Х	х	х
9	MALAYSIA	Universiti Sains Malaysia	ж	Х	х	х	х	х	х	X	х
10	MALAYSIA	Universiti Malaya	×	х	ж	х	х	х	х	ж	х
11	MALAYSIA	Universiti Putra Malaysia	ж	х	х	х	х	х	х	х	х
12	MALAYSIA	Universiti Utara Malaysia	ж	Х	х	х	х	х	х	х	х
13	MALAYSIA	Universiti Kebangsaan Malaysia	ж	х	ж	х	х	х	х	ж	х
14	MYANMAR	Yangon University	ж	х	х	х	No info	No info	х	ж	No info
15	MYANMAR	University of Yangon	×	х	ж	х	No info	No info	х	ж	No info
16	MYANMAR	University of Mandalay	ж	х	ж	х	No info	No info	х	ж	No info
17	PHILIPPINES	Ateneo de Manila University	ж	х	х	х	х	х	х	X	х
18	PHILIPPINES	De La Salle University	ж	х	х	х	х	х	х	х	х
19	PHILIPPINES	University of the Philippines Diliman	ж	х	х	х	х	х	х	х	х
20	SINGAPORE	Nanyang Technological University	ж	х	х	х	х	х	х	X	х
21	SINGAPORE	National University of Singapore	х	Х	х	х	х	х	х	х	х
22	SINGAPORE	Singapore Management University	х	х	х	х	х	х	х	х	х
23	THAILAND	Burapha University	х	ж	ж	Х	No info	x	ж	ж	х
24	THAILAND	Chiang Mai University	х	х	х	х	No info	х	х	ж	х
25	THAILAND	Chulalongkom University	х	х	х	Х	х	х	х	х	х
26	THAILAND	Mahidol University	х	Х	X	х	х	х	х	ж	х
27	THAILAND	Prince of Songkla University	x	х	х	х	х	х	х	х	х
28	VIETNAM	Can Tho University	х	х	х	х	х	х	х	х	х
29	VIETNAM	Vietnam National University - Hanoi	X	Х	х	х		х	Х	х	х
30	VIETNAM	Vietnam National University - Ho Chi Minh City (VNU-HCM)	x	x	х	х		х	×	х	х









A leading academic library that is a knowledge hub for scholarly engagement, teaching and learning, providing innovative, inclusive and creative learning environment.





Advance the learning and research thrusts of the university by providing quality information resources, learner-centered services and programs.





We ensure equal access to and preservation of information, respecting confidentiality and intellectual freedom.

SERVICE

We commit to excellent delivery of inclusive services to diverse community of learners.

EXPERTISE

We strive to deliver user-focused services from a team of competent library staff.

INTEGRITY

We uphold trust, respect, credibility and accountability in our work.

INNOVATION

We foster
creativity and
discovery of new
ideas and
solutions to
respond to
changing
information needs.

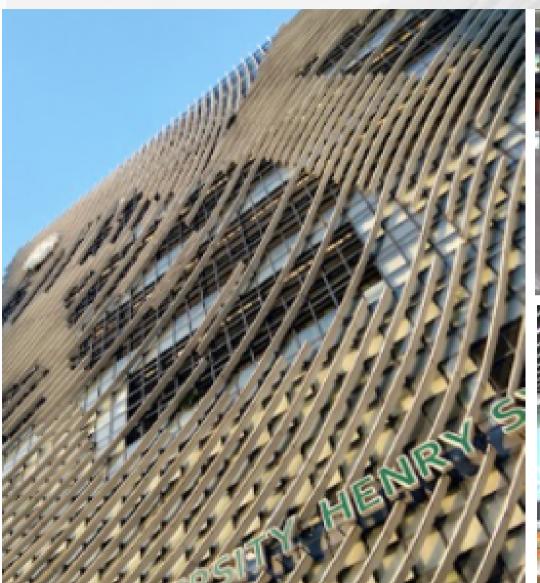
TEAMWORK

We create a positive teamwork environment where every member's role and contribution are recognized.













6 libraries

4 campuses



Key Priority Areas

1

Advance learning and research support

2

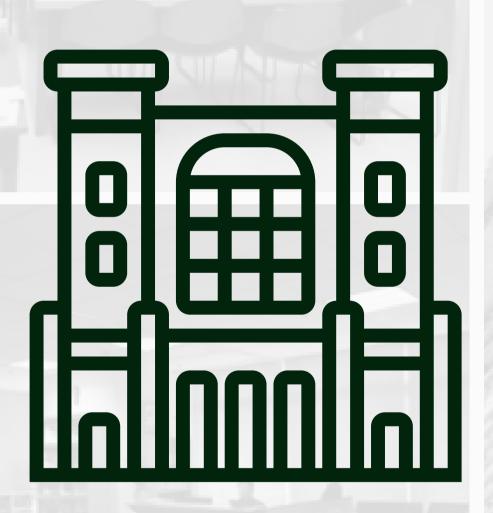
Strengthen engagement with our community

3

Grow together as a learning organization



DLSU's vision encompass...



Smart campus

SDG localization (SDG university consortium)

Research for social good



Our Aims (For every Lasallian to...)



...experience the library everywhere, anytime



...learn outside of the box using smart technologies



...be holistically literate (info, media, digital)



...be participative in the achievement of SDGs



Our Strategy: Integrating innovation in services, programs, people

- Trends
- Cloud-service platforms, portals/SAAS
- Next level Virtual Reference Services (VRS)
- Self-service culture
- 24/7 access to e-resources
- Discovery service
- Digital institutional repositories
- Data analytics



DLSU Libraries: Going smart and sustainable



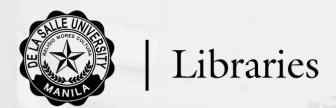
Technology integration



Digital resources



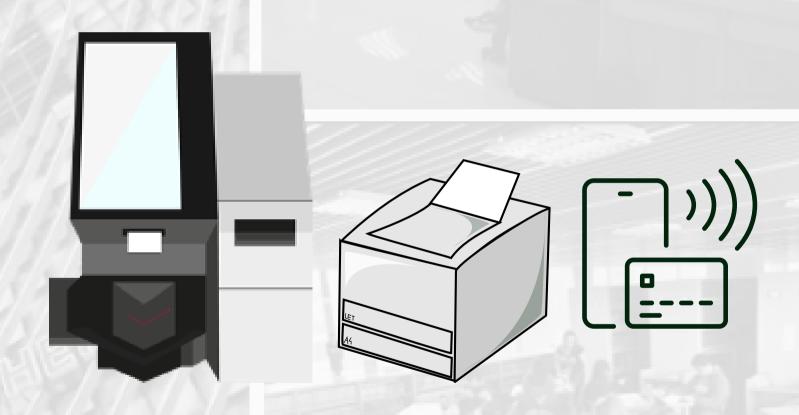
Data analytics



DLSU Libraries: Going smart and sustainable



Library mobile app



Self-service/contactless culture (i.e., bluetooth, QRs)



Our Milestones

COLLECTIONS

- E-resources
- Digital collections
- Online subject and library guides
- Curated free online resources

SERVICES

- Web applications for VRS channels (LORA, Socmed)
- E-course resource lists solution
- Contactless client-facing services

VIRTUAL SPACES

- Website
- AnimoSearch
- Animo Repository
- AnimoSpace (integration of library resources, modules, ecourse resource lists into LMS)
- Reading List
- Library Mobile App



DLSU Libraries:

Going smart and sustainable



BERDE design standard certification (first environment-friendly educational institution building in the country)



Maximizes natural light



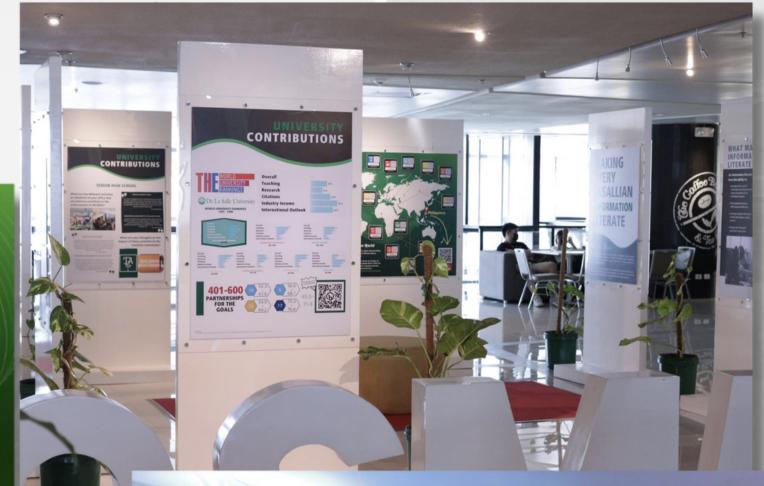
Seat occupancy (not crowded)



Green office principles











Takeaways

- Digital world is a borderless, user community experience
- Technology will be ever-present.
 Do not resist it. Take advantage. Leverage.
- There are innovative and creative solutions available.
- Benchmark and collaborate. Share what you have. Share what you know.
- Be agile. Learn new systems. Take advantage of the time you have to connect.
- Invest in making your team a "smart" people.



Smart and Sustainable Libraries 31 Oct-01 Nov 2023 | Bangkok, Thailand

Making your library smart and sustainable: A look at practices and experiences



Christine M. Abrigo

De La Salle University Manila, Philippines christine.abrigo@dlsu.edu.ph

THANK YOU. (Maraming salamat po.)

References

Cao, G., Liang, M., & Li, X. (2018). How to make the library smart? The conceptualization of the smart library. *Electronic Library*, 36(5), 811–825. https://doi.org/10.1108/EL-11-2017-0248

Gul, S., & Bano, S. (2019). Smart libraries: an emerging and innovative technological habitat of 21st century. *Electronic Library*, 37(5), 764–783. https://doi.org/10.1108/EL-02-2019-0052

Gupta, S. (2020). Green library: a strategic approach to environmental sustainability. *International Journal of Information Studies & Libraries*, *5*(2), 82–92. https://ssrn.com/abstract=3851100

Jerkov, A., Sofronijevic, A., Stanisic, D.K. (2015). Smart and Sustainable Library: Information Literacy Hub of a New City. In: Kurbanoglu, S., Boustany, J., Špiranec, S., Grassian, E., Mizrachi, D., Roy, L. (eds) Information Literacy: Moving Toward Sustainability. ECIL 2015. Communications in Computer and Information Science, vol 552. Springer, Cham. https://doi.org/10.1007/978-3-319-28197-1_3

Nahak, B., & Padhi, S. (2019, November 28). The role of smart library and smart librarian for e-library services. 12th International CALIBER 2019.

Rashid, H. A. (2022). Smart library: definition and four dimensions of the smart library. Library and Information Management Academic Blog. https://limbd.org/smart-library-definition-and-four-dimensions-of-the-smart-library/

Additional:

Website investigation of the library websites of AUNILO members and aunilo.net