

Charges for DART Equipment 2026

Equipment	Charging Unit	Department / IDTRP / ITRP	NUS Users	External Users	Consumables
Coy Vinyl Anaerobic Chamber	Half-day	\$60	\$90	\$120	NIL
Novocyte Penteon Flow Cytometer Systems 5 Lasers	Hourly	\$40	\$40	\$40	NIL
Operetta® High Content Imaging System	Hourly	\$30	\$45	\$80	NIL
Tomocube HT-2 Microscope	Hourly	\$30	\$35	\$50	NIL
xCELLigence RTCA DP System	Daily	\$60	\$90	\$120	NIL
xCELLigence RTCA SP System	Daily	\$60	\$90	\$120	NIL
Zoom HT Microplate Washer	Hourly	\$10	\$20	\$35	\$15 (Tomodish)

*External users are subjected to prevailing GST charges

DART Workplan Presentation

10 Feb 2026

Agenda:

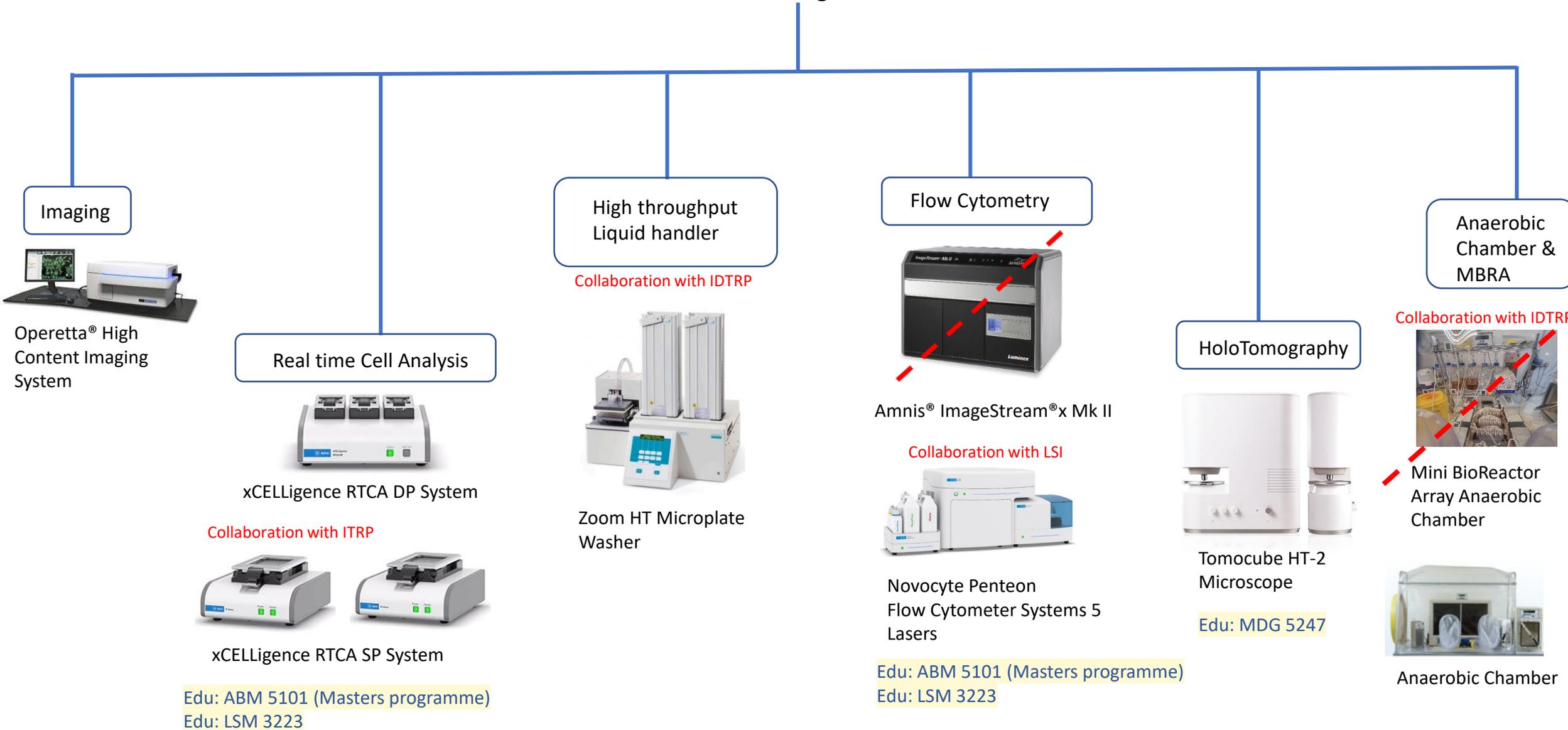
1. Opening remark by DART Head
2. DART Equipment
3. DART Finance
4. LT Duties
5. 2026 DART workplan

Ensure Operational Excellence & Sustainability

Strategic Objectives 3.1 Building Strong Sources of Revenue for Mission Support			Strategic Objectives 3.2 Enhance Cost Management & Resource Optimization		
DART Goal Provide easy and open access to cutting edge equipment to meet the needs of our research and teaching communities			DART Goal Balance equipment costs with revenue and core funding on an optimized booking platform		
DART Objectives	Priorities for FY 2026	Status	DART Objectives	Priorities for FY 2026	Status
1. Consolidate and showcase cutting edge equipment on Department website and through promotional events.	<ul style="list-style-type: none"> Highlight publications that use DART equipment in the DART website. EDM via Social media-LinkedIn, Twitter, Instagram. (Circulated on Departmental Centennial Symposium) To promote DART equipment by linking with NUSMedSci Alliance. (Thai Tran) Update DART website & improve visibility of DART website in Dept webpage. To promote DART equipment by linking with CAT. 	<ul style="list-style-type: none"> Ongoing 	4. Leverage PPMS features for project management and revenue projections.	<ul style="list-style-type: none"> To review the rates once every year based on usage, maintenance cost, consumables cost - last reviewed on May 2025 To obtain account revenue of DART in 2023 and request for a 1-1 match into DART WBS 	<ul style="list-style-type: none"> Ongoing Incomplete
2. Open access to equipment on a global booking system through all NUS platforms: PPMS.	<ul style="list-style-type: none"> To enhance the information provided by PPMS on the DART equipment by including SOPs and RAs and declaration Update SOPs and RAs to be uploaded onto PPMS 	<ul style="list-style-type: none"> Ongoing 	5. Streamline and simplify finance operations through billing optimization.	<ul style="list-style-type: none"> Re-look into the internal processes for billing to internal and external customers. 	<ul style="list-style-type: none"> Ongoing
3. Integrate equipment in Department modules.	<ul style="list-style-type: none"> Include subject matter as agenda in next Teaching Retreat and *PI Lab meeting for more in depth discussion with module co-ordinators. To integrate DART equipment into teaching. 	<ul style="list-style-type: none"> Ongoing 	6. Digitalise DART Equipment Management	<ul style="list-style-type: none"> To ensure proper equipment status tracking and documentation by utilising NUS-approved platforms, including Teams and Dropbox. 	<ul style="list-style-type: none"> Ongoing

DART Equipment

The mission of DART is to provide easy and open access to cutting edge equipment to meet the needs of our research and teaching communities.



DART Objectives:

- Re-look into the internal processes for billing to internal and external customers.

Summary of Equipment Usage

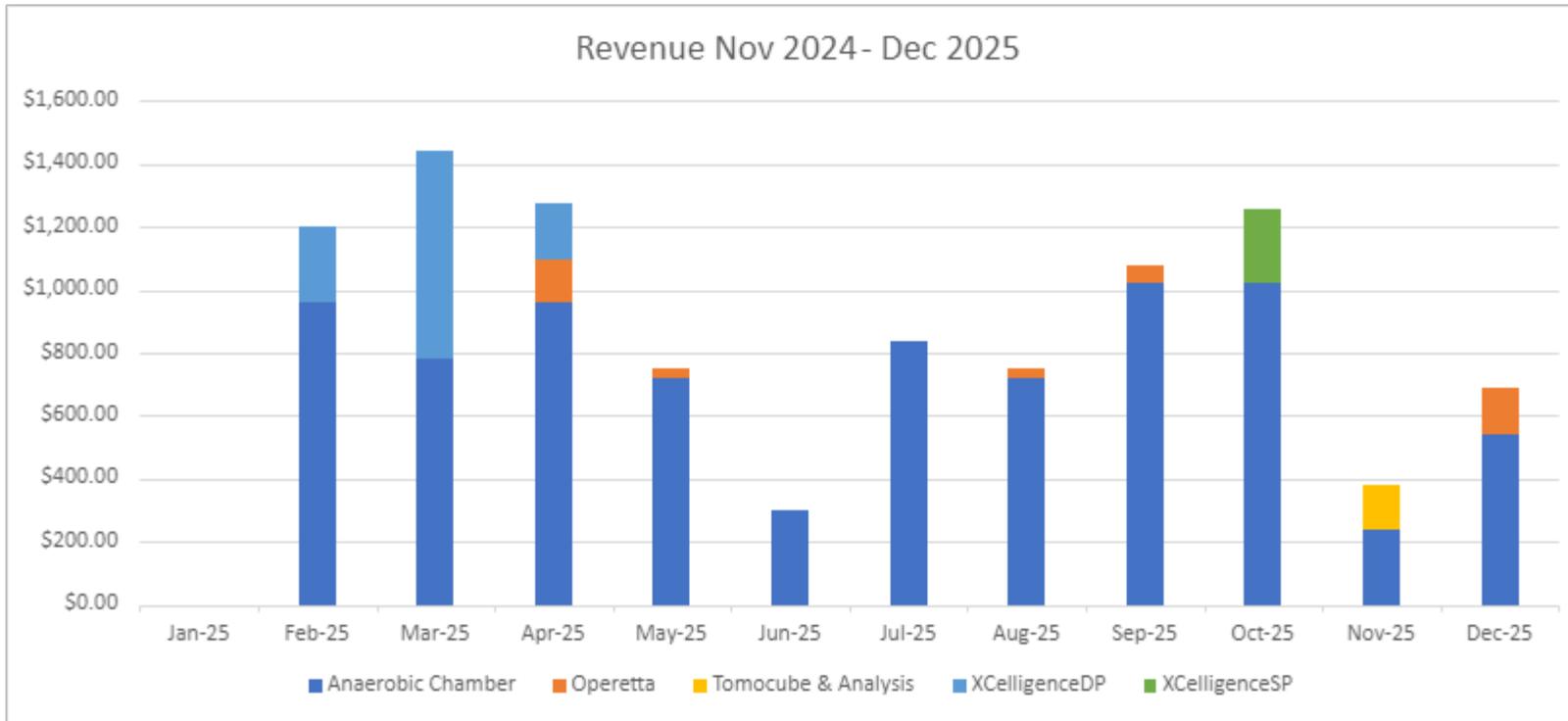
(Nov'24 – Dec'25)

Equipment	Users	Usage
Amnis	No booking	NIL
Anaerobic Chamber	ZYL Lab	Monthly
Operetta	TYJ Lab JC Lab	Apr, May, Aug, Sep, Dec Apr, Dec
Plate Washer	No booking	NIL
Tomocube & Analysis	BM Lab mdg 5247	Nov
XCelligenceDP (CeLs)	AC Lab LHY Lab LL Lab	Nov'24, Dec'24 Nov'24 Feb, Mar, Apr No booking since May'25
XCelligenceSP	ABM5101 LSM3223	Mar, Oct
NovoCyte Penteon Flow Cytometer	ABM5101 LSM3223	Weekly Mar, Oct

**Equipment usage
(Nov 2024 to
Dec 2025)**

DART Objectives:

- Re-look into the internal processes for billing to internal and external customers.



Equipment	Amount
Anaerobic Chamber	\$8,100.00
XCelligenceDP	\$1,080.00
Operetta	\$405.00
XCelligenceSP	\$240.00
Tomocube & Analysis	\$140.00
Amnis	\$0.00
Plate Washer	\$0.00
Microtome	\$0.00
Grand Total (Nov'24-Dec'25)	\$9,965.00

https://nusu-my.sharepoint.com/:x:/r/personal/mictyjn_nus_edu_sg/_layouts/15/Doc.aspx?sourcedoc=%7B7A89E214-C9E1-4893-9B2E-95B1828DF1AA%7D&file=DART%20Billing%202025.xlsx&action=default&mobileredirect=true

DART Objectives:

Streamline and simplify finance operations through billing optimization.

Priorities for FY 2026:

- Re-look into the internal processes for billing to internal and external customers.

Penteon NovoCyte

S/ No	Description	Amount		50/50 Sharing	Remarks
		DR	CR		
1	Expenses paid for the period between Oct-23 and Mar-25	\$ 11,626.47			<i>Journal Transferred completed on 22 May 2025 with an amount of SGD18,206.65. The journal has been posted via Doc 540101546. An error on the amount posted was detected on 10th Feb 2026. An excess of SGD407.89 was posted. A journal reclass will be initiated.</i>
2	Income collected for the period between Oct-23 and Mar-25		\$ 47,224.00		
	Net Income		\$ 35,597.53	\$ 17,798.76	

S/ No	Description	Amount		50/50 Sharing	Remarks
		DR	CR		
1	Expenses paid for the period between Apr-25 and Dec-25	\$ 3,528.94			
2	Income collected for the period between Apr-25 and Dec-25		\$ 18,240.00		
	Net Income		\$ 14,711.06	\$ 7,355.53	

LT Duties – Equipment In Charge

Equipment	Location	Person In Charge	Duties
AMNIS	MD4, Level 2	May Ling(T), Vanessa(T)	<ol style="list-style-type: none"> 1. Maintenance of Equipment 2. Set up & Shut down 3. Training (T) 4. RA & SOP review and Update 5. Collate data for billing (C)
Operetta	MD4, Level 3	June (T), Vanessa(T)	
xCELLigence SP	MD4, Level 4	Dylan, Madhu(T)	
xCELLigence DP	CeLS, Level 3, #03-06C	Madhu(T), Chien Tei	
Zoom HT Plate Washer	MD4, Level 3	Vanessa(T), Gladys	
Novocyte Penteon	CeLS, Level 3, #03-01	Nikki, Michael	
Anaerobic Chamber	MD4, Level 4,	May Ling, Madhu(T)	
Tomocube	MD4, Level 5	Michael(T), Gladys	
EDM		Dylan, Chien Tei	
Finance & Billing		Nikki, Michael	Prepare Poster/Brochure for marketing
PPMS		Chien Tei, June	Billing to users, SOA submission
DART Website		Rachel, Chien Tei	PPMS Admin Role includes Grant User request account, Update Publications, etc
			Liaise with Rachel for website update

DART Objectives:

Consolidate and showcase cutting edge equipment on Department website and through promotional events.

DART

Department Advanced Research Technologies

Priorities for FY 2026:

- Highlight publications that use DART equipment in the DART website.
- EDM via Social media-LinkedIn, Twitter, Instagram.
- To promote DART equipment by linking with NUSMedSci Alliance.
- To promote DART equipment by linking with CAT.
- Update DART website & improve visibility of DART website in Dept webpage.



No new users after Centennial Symposium 18th July 2025

To promote DART equipment by linking with NUSMedSci Alliance. - Dr Benoit

To promote DART equipment by linking with CAT. - Fatimah

✓ Marketing: Email account micox17@nus.edu.sg (DART), Password: equipMent@2026



DART Objectives:

Open access to equipment on a global booking system through all NUS platforms: PPMS.

Priorities for FY 2026:

- To enhance the information provided by PPMS on the DART equipment by including SOPs and RAs and declaration
- SOPs and RAs to be uploaded onto PPMS

✓ (i) To make it a requirement for first time users to read the SOP and RA of the equipment

☐ (ii) Ongoing updates with SOPs and RAs review - June

✓ PPMS Renewal contract 01 March 2026 to 28 Feb 2027 at USD 2,448

DART Objectives:

Integrate equipment in Department modules.

Priorities for FY 2026:

- Include subject matter as agenda in next Teaching Retreat for more in depth discussion with module co-ordinators.

Equipment showcase on Teaching Retreat 2026 (27 Feb 2026)?

Current Modules using DART equipment:

1. ABM 5101 (Masters programme)
 - xCELLigence SP
 - NovoCyte Penteon
2. LSM3223 – NovoCyte Penteon
3. MDG5247 - Tomocube

DART Objectives:

Leverage PPMS features for project management and revenue projections.

Priorities for FY 2026:

- To review the rates once every 12 months based on usage, maintenance cost, consumables cost
- To obtain account revenue of DART in 2023 and request for a 1-1 match into DART WBS

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Available on DART webpage

DART Objectives:

Streamline and simplify finance operations through billing optimization.

Priorities for FY 2026:

- Re-look into the internal processes for billing to internal and external customers.

	FY 2025 (Apr 2024 to Mar 2025)	FY 2025 (Oct 2024 to Oct 2025)
Income	\$15,035.15	\$31,276.83
Expenditure	\$18,311.59	\$4,554.89

Account Balance for DART WBS: E-571-00-0820-01 is \$94,245.00

DART Objectives:

Digitalise DART Equipment Management.

Priorities for FY 2025:

- To ensure proper equipment status tracking and documentation by utilising NUS-approved platforms, including Teams and Dropbox.

- ✓ Created an Excel file to facilitate information sharing on DART equipment status: [DART Equipment Status](#)

Equipment	Status (e.g. in operation, pending repair - to include details, etc)	Date	Contributor Name
AMNIS MD4, level 2, #02-01C	Due to no usage, management is not supportive to fund the repairs. There were some interest from a few <u>users</u> but we were unable to offer the service since the machine is not operational. No usage in 2025 - Non-comprehensive PM (exclude parts) \$13,189 (including GST) (Last performed for the period between 1 May 2025 - 30 April 2025) - Replacement of Solenoid Upgrade Kit needed - \$8,482.38 (including GST)	9.1.26	May Ling & Vanessa
Operetta MD4, level 3, #03-02B	In Operation Repair of the corrupted database in Nov 2025 - \$2,825.28	3.2.26	June & Vanessa
xCELLigence SP MD4, level 4, #04-02B	In operation	3.2.26	Madhu

xCELLigence DP CeLS, #03-09C	In Operation; Last PM with Repair completed in Apr 2023 at \$10,380 (woGST) FYI, Comprehensive PM quoted in Oct 2025 at \$11,456.77 (woGST)	9.1.26	Chien Tei
Zoom HT Plate Washer MD4, level 3, #03-02B	- No usage in 2025	9.1.26	Vanessa, Gladys
Novocyte Penteon, CeLS, #03-01	In Operation; PM due in 2028 Budgetary Quote for Comprehensive PM: Year 2028: \$53,501 Year 2029: \$53,501 Year 2030: \$53,501 Year 2031: \$56,177 Year 2032: \$56,177	4.2.26	Nikki
Anaerobic Chamber MD4, level 4, #04-02B	In Operation	3.2.26	Madhu
Tomocube MD4, level 5, #05-03F	In operation, last usage 10 Nov 2025 There is still 29 tomodish consummables left	9.2.26	MTHIAM

Tentative DART 2026 Work Plan

Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
<ul style="list-style-type: none"><input type="checkbox"/> Request for 1-1 DART revenue match<input type="checkbox"/> DART presentation in Department meeting in 2026✓ PPMS license renewal✓ Update DART website	<ul style="list-style-type: none"><input type="checkbox"/> DART Finance Biannual Update in June 2026<input type="checkbox"/> DART Workplan Presentation and Appreciation lunch	<ul style="list-style-type: none"><input type="checkbox"/> EDM for social media publicity<ul style="list-style-type: none">- NUSMedSci Alliance.- CAT<input type="checkbox"/> PPMS Training	<ul style="list-style-type: none"><input type="checkbox"/> Internal Finance Workflow (SOP for DART finance)<input type="checkbox"/> Update of SOA

Thank you for your attention

