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A Primer in Science and Engineering Collection Development

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A Primer in Science and Engineering Collection Development



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Academic Subject Background

Example - Wind power, Civil & Environmental Engineering

But Selectors may also cover:

- Applied & Engineering Physics
- Biomedical Engineering
- Chemical and Biomolecular Engineering
- Computer and Information Science
- Electrical engineering
- Earth and Atmospheric Sciences
- Materials Science
- Mechanical & Aerospace Engineering
- Operations Research and Information Engineering
- Systems Engineering



<http://rodmartin.org/>

Learn about faculty research, reference books, primary publishers, engineering societies, student research projects; attend seminars, promote services.

Use Scopus or WOS to see where faculty publish and where they cite.

Usage Statistics

Important to consult COUNTER stats

Look at critically

High use – one month or multiple; Current (JR1), Denials (JR2) and Archive (JR5)

Denials – for items you have – may mean discovery issue

Consult with individual faculty if department doesn't respond

Don't be afraid to cancel

Patrons have other options – many books published on the same topic, ILL



www.projectcounter.org



Technical Services

Learn as much as you can about technical services.
Will help with discovery and access.

- GOBI, OASIS ordering systems
- Library management system
- Discovery layers
- How often records get loaded
- Proxy
- Updated IP ranges
- APIs
- Cataloging issues

May discover you don't have access to what you're paying for.... - can follow-up to get this resolved.

FOLIO
The Future of Libraries is Open



blacklight

www.prnewswire.com
blogs.library.duke.edu



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Faculty and the Collection

Collections Philosophy

- Responsive research collection
- Decision making grounded in strategic choices
- Greatest good for greatest number
- Incorporates ethical considerations and values
- Incorporates guiding principles for various types of resources

Drivers that Influence Decisions

- Users
- Data
- Librarians
- Market
- Business
- Values

User Driven Decisions

- Research and teaching of institution
- Faculty grants and institutional focus
- [Suggest a title](#)
- Evidence-based buying models
- Interlibrary loan
- Buy not borrow

Subject Librarians

The Research Bunch

Government & Geo-Information	Open Access & Copyright	Science & Engineering	Social Sciences	Music & Performing Arts
Business, Management, & Entrepreneurship			Architecture	Citizenship & Humanities
Education & Mathematics			Literature, Rhetoric, & Digital Humanities	Information Studies
Visual Arts	Research Data Services	Health, Human Services, & Sport Management	Communications & Public Affairs	Syracuse University Libraries Research & Scholarship

Current Research

Syracuse University

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Profiles



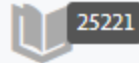
56

Research Units



1564

Grants



25221

Research Output



12

Activities



6309

Press and Media



8

More

Explaining the Budget to Faculty

- Ratio of print/electronic: approximately 25/75
- Most of budget already committed at start of fiscal year
- 3-5% unplanned each year
- To increase the unplanned portion would require:
 - Cancelling subscriptions
 - Buying fewer books
 - Hobbling infrastructure

Important Factors

- Transparency
- Communication
- Relationships

Collecting Monographs Print & Electronic

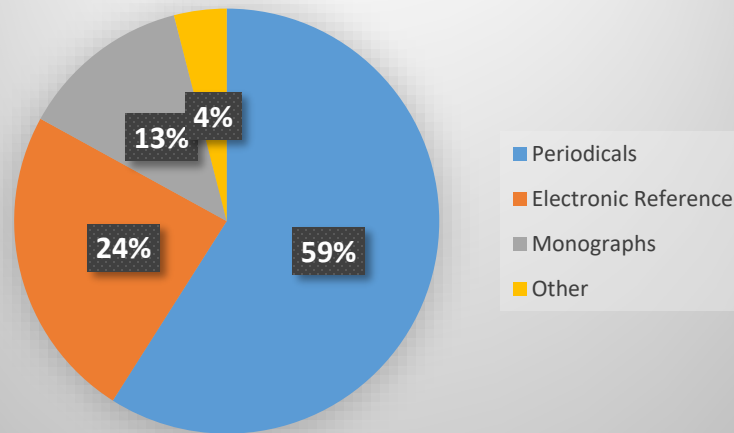


Collection Librarian must have knowledge of:

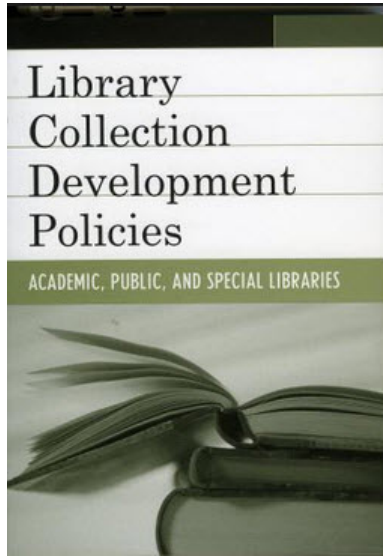


- Mission Vision of Institution
- Curriculum/Research
- The Approval Plan Process
- Budget
- Collection Management Policies
- Acquisitions
- Weeding

FY 2016 Materials as % of Total Materials Budget



Collection Development Policies for Print – Elements of



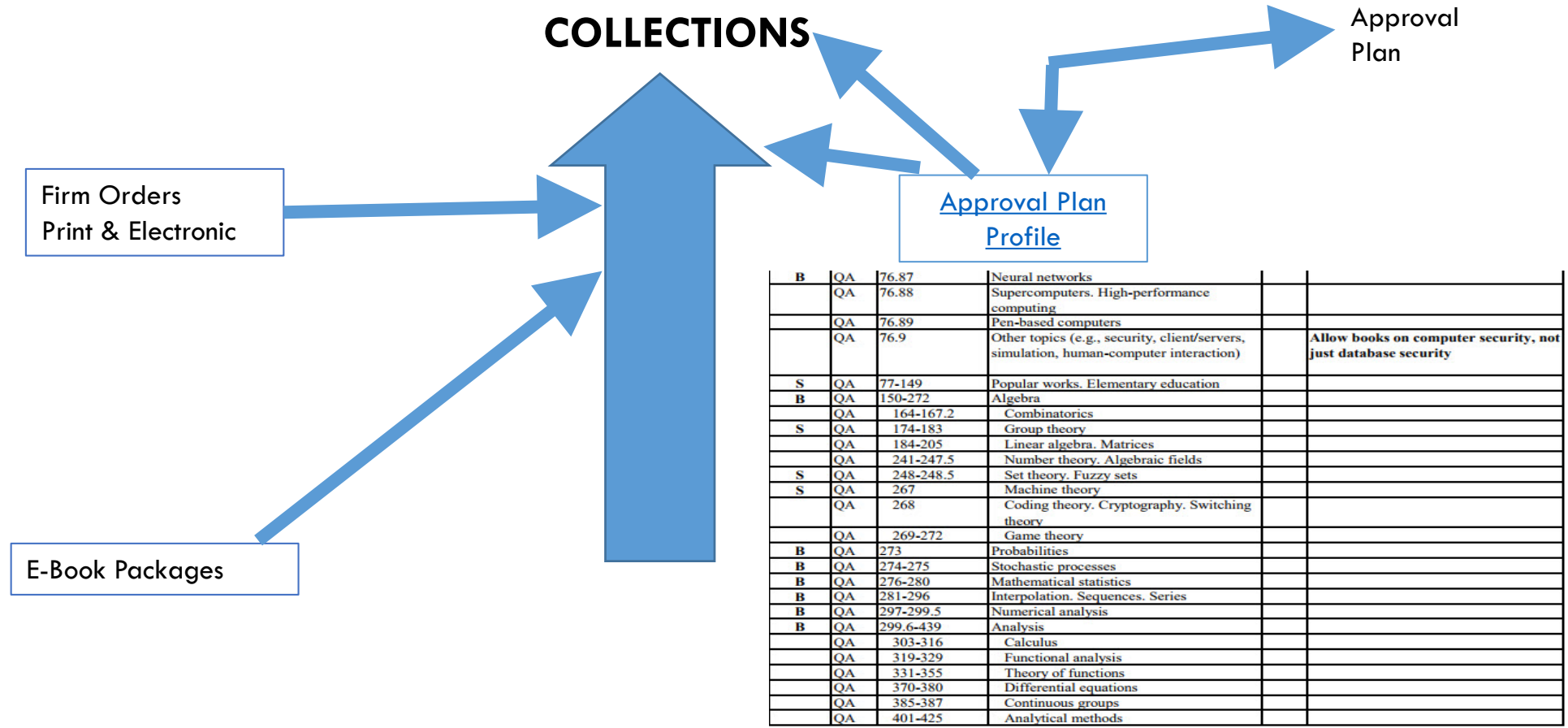
- Purpose
- Language
- Chronology
- Geography
- Publication Date
- Treatment of Subject
- Types of Materials and Formats
- Area Resources
- Subjects and Collecting Levels

Collection Development Policies for E-Books – Elements of

What matters when considering Collection Development Policies for title-by-title E-formats?

- Functionality of the platform
- Number of Simultaneous users
- Course Reserves
- E-Book exact content as print
- Images –are they sharp?
- Competitive Pricing
- Duplication of Formats
- Perpetual Access of purchased titles
- Access through Campus-wide IP
- Weeding - is it necessary?

Collection Building in a Variety of Ways



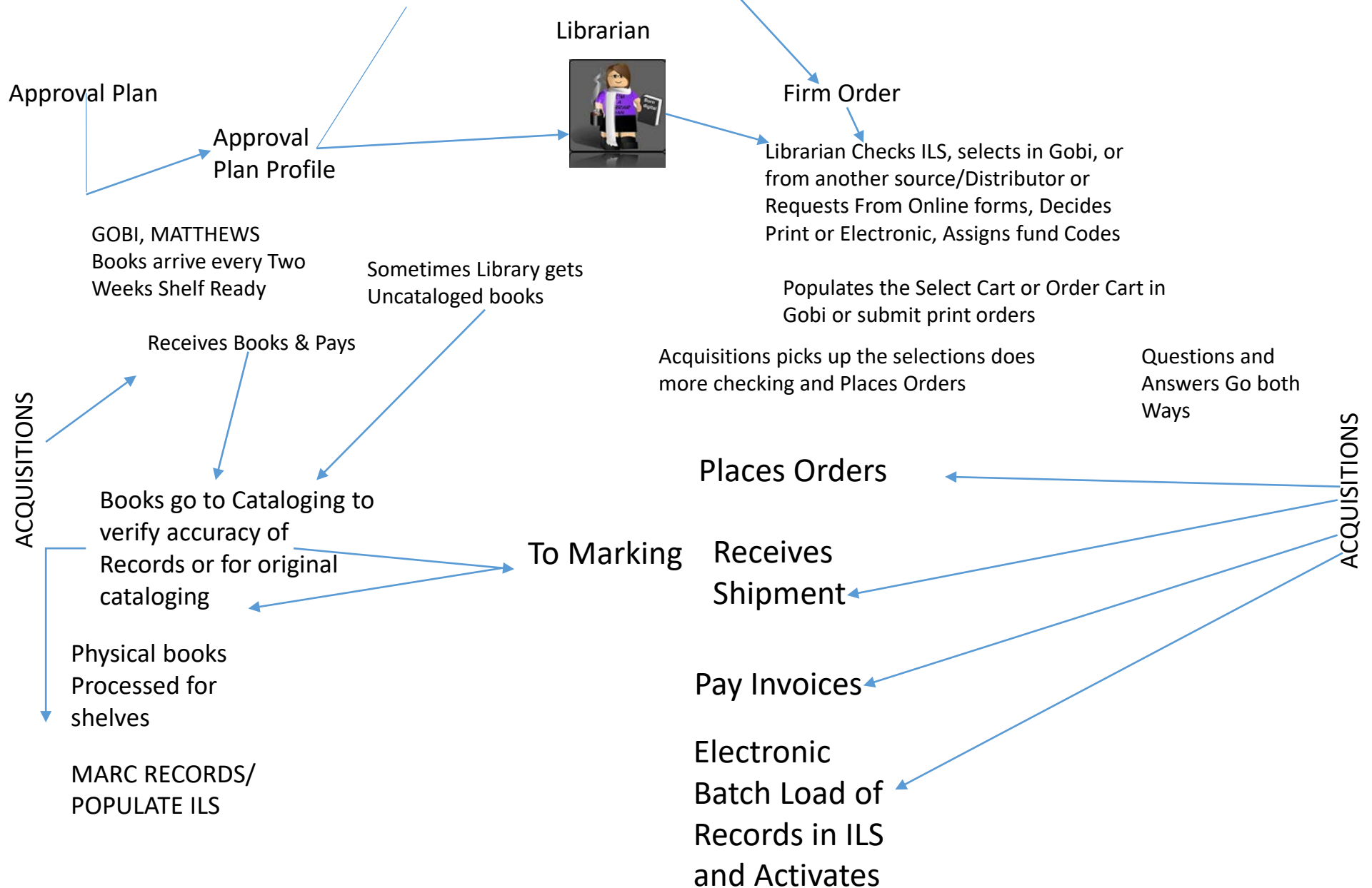
A Section of the Approval Plan Profile -VCU

		TJ	Mechanical Engineering & Machinery		
Action		LC Range	Description	Fund	Exceptions
B	TJ	1-1570	Mechanical Engineering & Machinery		Price ceiling exception--\$175; ePreferred
	TJ	1-162	General. History		
	TJ	163-169	Power resources. Energy conservation		
	TJ	170-211	Mechanics of machinery. Movements. Robotics		
	TJ	212-226	Control engineering		
	TJ	227-253	Machine design and construction		
	TJ	254-267	Combustion engineering. Heat engines. Turbines		
	TJ	268-750	Steam engineering		
	TJ	751-806	Miscellaneous motors and engines		
	TJ	807-835	Renewable energy sources. Solar energy		
	TJ	836-939	Hydraulic machinery		
	TJ	940-1039	Vacuum technology. Pneumatics		
	TJ	1040-1124	Machinery exclusive of prime movers (Brakes, bearings, tribology, etc.)		
S	TJ	1125-1349	Machine shops		
S	TJ	1350-1424	Hoisting and conveying machinery		
S	TJ	1425-1479	Lifting and pressing machinery		
S	TJ	1480-1500	Agricultural machinery		
X	TJ	1501-1529	Sewing machines		
S	TJ	1530-1570	Other special machinery (e.g.: coin operated machines)		
		TK	Electrical Engineering, Electronics, Nuclear Engineering		
Action		LC Range	Description	Fund	Exceptions
B	TK	1-9971	Electrical Engineering, Electronics, Nuclear Engineering		Price ceiling exception--\$175; ePreferred
	TK	1-440	General. History		
	TK	441-451	Management of electrical enterprises		

Publishers' List

B	3380-11	APPROVALS
IMPERIAL COLLEGE PRESS		Imprint ID: 714
B	3380-11	APPROVALS
INANNA PUBLICATIONS		Imprint ID: 2943
	ASSOCIATION PRICING PUBLISHER.	
B	3380-11	APPROVALS
INDIANA UNIV PRESS		Imprint ID: 791
B	3380-11	APPROVALS
INDUSTRIAL PRESS		Imprint ID: 2255
	ASSOCIATION PRICING PUBLISHER.	
B	3380-11	APPROVALS
INFINITY SCIENCE PRESS		Imprint ID: 2962
B	3380-11	APPROVALS
INFORMA HEALTHCARE		Imprint ID: 7929
	LIST PRICE PUBLISHER.	
S	3380-11	APPROVALS
INFORMATION AGE PUB		Imprint ID: 1235
	LIST PRICE PUBLISHER.	
B	3380-11	APPROVALS
INFORMATION SCI REFER/IGI		Imprint ID: 2957
S	3380-11	APPROVALS
INFORMATION TODAY		Imprint ID: 2467

How To Get a Book Into the Library – the Workflow



Electronic Resources

E-Book Packages

Choosing a Vendor/Aggregator

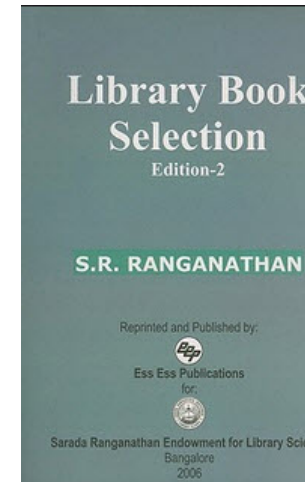
- Reputation
- Customer Care
- Platform
- Communication turn around time

What to negotiate?

- DRM Free
- Ability to download Chapters
- Ability to loan chapters
- Interlibrary loan
- Consortium Access
- Course Reserves
- Regular Updates



- Databases
- Functionality
- Images -are they sharp enough?
- Do a trial before signing the license
- Consortium Access



What to consider in Selection?

- Curriculum
- Level
- Research
- Interdisciplinary
- Cost
- Print Vs Electronic
- Publication Date

How do you judge quality of your collection?

- Faculty Feedback from LibQual™
- Faculty and Graduate Students Focus Groups
- WorldCat Collection Evaluation – benchmarking against collections of peers and inspirational peers

It is all about negotiation...

Know what you want

- Do your homework – know options for formats, providers & local compatibilities - consequences if not added to collection
- Think how product is to be used – every title is potential Reference work & textbook
- Consider whether this is a local or consortia purchase
- Arrange for a trial before committing
- Price may determine needs
 - Cost per use
- Terms of license
 - What is critical?
 - What can you live without?

Varied resources are critical in STEM coverage

- Journals – key content from professional societies (Engineering/Computer Science) & commercial publishers
- Conference papers/proceedings – also important
- Standards & specifications – critical content from technical bodies (ASTM, societies, government agencies, international bodies)
- Books & book chapters – eBooks preferred
 - Packages/collections from publishers, aggregators & 3rd party providers (Knovel)
- Media – growing interest & many examples of multi-media
- Case Studies, Tech Reports – from academe, industry, government
- Images & models

Read license carefully

- Model license – terms can be negotiated for local needs ([UC/CDL](#), [CRL](#), [NERL](#))
- Important issues
 - Perpetual access for what you pay
 - Usage statistics
 - Walk-in users
 - Repurposing
 - Downloading / copying rights
 - ILL access
 - Remote access
- Work with colleagues in Acquisitions or eResource team
- Institutional deal breakers – indemnification is major issue



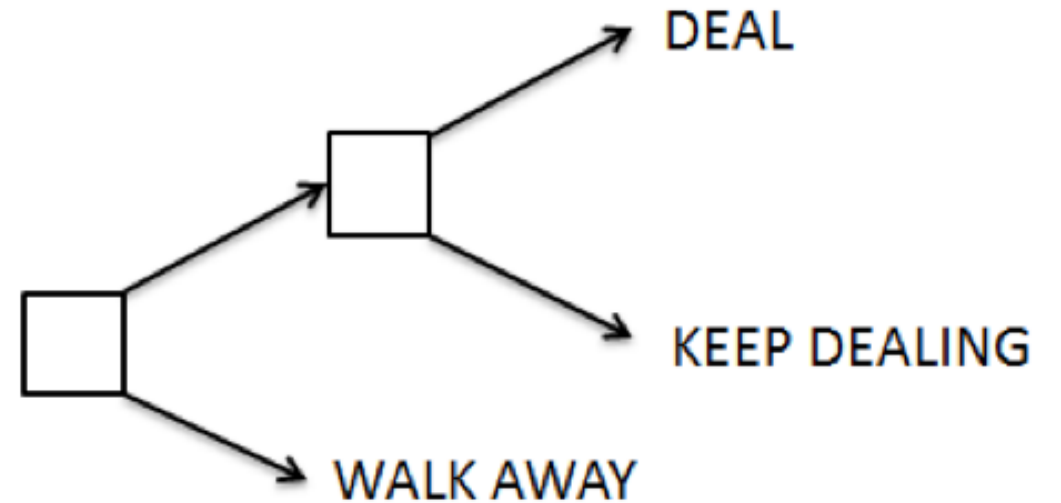
Reaching a



- Solutions may take time
- Learn relationships between publishing families
- Consider local processing procedures
 - Individual records – MARC
 - Frequency of new content being added
- Assessment exercises – time to renew
- User satisfaction
- Impact on collection

Options & Consequences

- Be prepared to walk away
- Don't be pressured into anything
- Do your due diligence ahead of time
- Ask for other customers to contact about user experience
- Know competition in marketplace



Other Hints

- Develop personal licensing toolkit
- Become familiar with vendors / suppliers / distribution channels
- Acquisition models for both print & eBooks
 - Vocabulary
 - Acronyms
- Jurisdiction matters
- Tie in to Copyright, Fair Use practices