

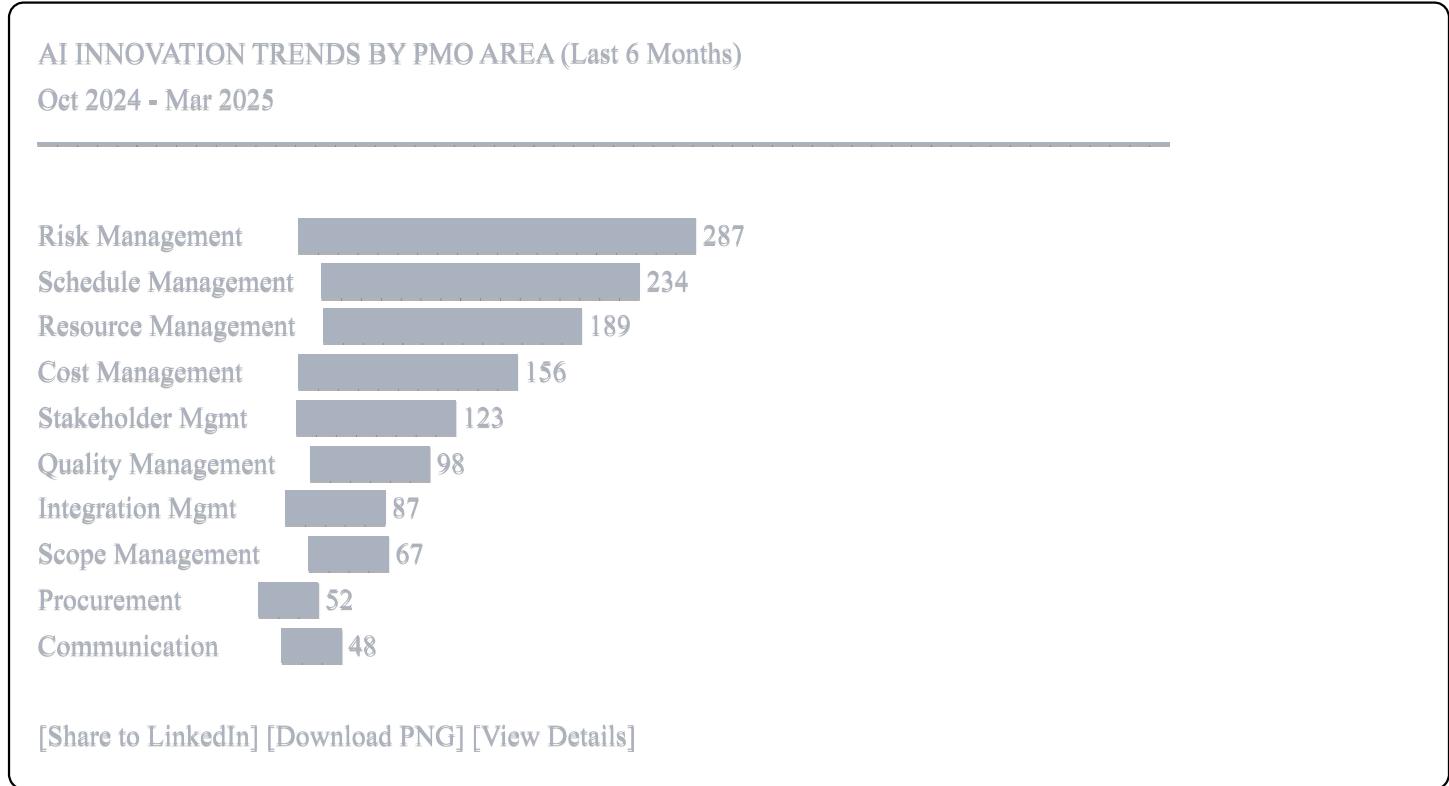
# PMO Trends Chart & Feature Implementation Guide

## Feature 1: Monthly PMO Trends Chart (6-Month View)

### Concept

Interactive chart showing AI innovation trends across PMBOK knowledge areas over the past 6 months. Updates daily with rolling 6-month window.

### Visual Design



### Technical Implementation

#### Database Query

```
sql
```

```
-- Get 6-month rolling trends by PMBOK area
SELECT
    pmo_area,
    COUNT(*) AS article_count,
    MONTH(publish_date) AS month,
    YEAR(publish_date) AS year
FROM newsletter_content
WHERE
    publish_date >= DATE_SUB(CURDATE(), INTERVAL 6 MONTH)
    AND pmo_relevance_score >= 7 -- High quality only
GROUP BY pmo_area, YEAR(publish_date), MONTH(publish_date)
ORDER BY article_count DESC;
```

## Tech Stack

- **Frontend:** Chart.js or Recharts (React)
- **Data Format:** JSON endpoint (`/api/pmo-trends.json`)
- **Update Frequency:** Daily at midnight (regenerate chart data)
- **Caching:** 24-hour cache to reduce server load

## Chart Configuration

```
javascript
```

```

// Chart.js configuration
{
  type: 'bar',
  data: {
    labels: ['Risk Mgmt', 'Schedule', 'Resource', 'Cost', 'Stakeholder',
      'Quality', 'Integration', 'Scope', 'Procurement', 'Communication'],
    datasets: [{

      label: 'AI Articles (Last 6 Months)',
      data: [287, 234, 189, 156, 123, 98, 87, 67, 52, 48],
      backgroundColor: 'rgba(0, 245, 255, 0.7)', // Cyan gradient
      borderColor: 'rgba(0, 245, 255, 1)',
      borderWidth: 1
    }]
  },
  options: {
    responsive: true,
    indexAxis: 'y', // Horizontal bars
    plugins: {
      title: {
        display: true,
        text: 'AI Innovation Trends by PMO Area (Last 6 Months)'
      },
      tooltip: {
        callbacks: {
          afterLabel: function(context) {
            return 'Click to see articles';
          }
        }
      }
    }
  }
}

```

## 🔗 LinkedIn Sharing Integration

### How It Works

LinkedIn doesn't have a direct "post to feed" API for regular users. Instead, you have two options:

#### Option 1: LinkedIn Share Dialog (Recommended - No API Key Needed)

User clicks "Share to LinkedIn" → Opens pre-populated LinkedIn share dialog

```
javascript
```

```
function shareToLinkedIn() {
  // Generate shareable image URL
  const imageUrl = 'https://smartpmo.ai/charts/pmo-trends-2025-03.png';

  // Pre-written post text
  const text = encodeURIComponent(
    '📊 AI Innovation in PMO: 6-Month Trends\n\n' +
    'Risk Management leads with 287 AI innovations, followed by Schedule (234) and Resource Management (189).\n\n' +
    'The PMO landscape is transforming. Are you keeping up?\n\n' +
    'Data from @SmartPMO.ai\n\n' +
    '#PMO #AI #ProjectManagement #PMBOK'
  );
}

// LinkedIn share URL
const linkedInUrl = 'https://www.linkedin.com/sharing/share-offsite/?url=https://smartpmo.ai/trends?utm_source=linkedin&';

// Open in new window
window.open(linkedInUrl, '_blank', 'width=600,height=600');
}
```

## What happens:

1. User clicks "Share to LinkedIn" button
2. Opens LinkedIn in new window with URL pre-filled
3. User adds their own commentary (LinkedIn requires this)
4. LinkedIn auto-generates preview from your page's Open Graph tags
5. User clicks "Post" on LinkedIn

## Option 2: LinkedIn API (Requires User Authentication)

**Only use if you want automated posting without user interaction**

### Requirements:

- LinkedIn Developer App
- OAuth 2.0 authentication
- User grants permission
- Each user must authenticate separately

javascript

```
// Not recommended for general use - requires OAuth flow
async function postToLinkedInAPI(accesstoken, imageUrl, text) {
  const response = await fetch('https://api.linkedin.com/v2/ugcPosts', {
    method: 'POST',
    headers: {
      'Authorization': `Bearer ${accesstoken}`,
      'Content-Type': 'application/json',
    },
    body: JSON.stringify({
      author: 'urn:li:person:{userId}',
      lifecycleState: 'PUBLISHED',
      specificContent: {
        'com.linkedin.ugc.ShareContent': {
          shareCommentary: {
            text: text
          },
          shareMediaCategory: 'IMAGE',
          media: [
            {
              status: 'READY',
              originalUrl: imageUrl
            }
          ]
        }
      },
      visibility: {
        'com.linkedin.ugc.MemberNetworkVisibility': 'PUBLIC'
      }
    })
  });
}

});
```

## ⚠ Complexity:

- Requires OAuth flow (user login)
- Token management
- LinkedIn app approval process
- Rate limits

## RECOMMENDED APPROACH: Share Dialog + Open Graph

**Why this is better:**  No API keys needed  No user authentication  No rate limits  User can add personal commentary  More authentic (not automated spam)  Works immediately

### Implementation:

#### Step 1: Add Open Graph Tags to Your Page

html

```
<!-- In your index.html <head> -->
<meta property="og:title" content="AI Innovation Trends in PMO - 6 Month Analysis" />
<meta property="og:description" content="Risk Management leads with 287 AI innovations. See which PMBOK areas are be
<meta property="og:image" content="https://smartpmo.ai/charts/pmo-trends-current.png" />
<meta property="og:url" content="https://smartpmo.ai/trends" />
<meta property="og:type" content="website" />

<!-- Twitter Card tags (bonus) -->
<meta name="twitter:card" content="summary_large_image" />
<meta name="twitter:title" content="AI Innovation Trends in PMO" />
<meta name="twitter:"
```